Annual Return of Statistics relating to Forest Administration in British India for the year 1928-29

(With which is incorporated the Quinquennial Review, ending 31st March 1929)



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				PAGES.
Quinquennial	Review of Forest Administration in British India, endi	ng 31st	March	
1020		•	• •	. 1—16
	STATEMENTS.			
Statement	I.—Area of forests under the control of the Forest	t Denartr	nent.	17
3)	II.—Progress of forest settlements	· - oparoz		18
,,	III.—Demarcation and maintenance of boundaries		·	19
3)	IV.—Forest areas surveyed and under survey .			20-21
**	V.—Progress in working plans	•		22
"	VI.—Expenditure on communications and buildings			23
37	VII.—Breaches of forest rules			2425
2) 2)	VIII.—Area protected from fire			26
»	IX.—Causes of forest fires			27
,, ,,	X.—Area closed and open to grazing			28
33	XI.—Protection from cattle			3031
,,,	XIIProgress on reproduction and afforestation			32
" "	XIII.—Outturn of forest produce			33
"	XIV.—Forest produce removed by different agencies			3435
"	XV.—Exports of forest produce			36
,, ,,	XVI.—Value of forest produce given away free or at	reduced r	ates	87
»	XVII.—Details of revenue and expenditure (excluding Fed. Shan States).			38
·" XV	II (a).—Details of revenue and expenditure (Burma a States only).	ınd Fed.	Shan	39
,,	KVIII.—Summary of revenue and expenditure .		•	40-41
	XIX.—Revenue, expenditure and surplus during the 1899-1900 to 1928-29	30 years	from	42-47
•				
1	APPENDIX.			٠, .
I. Area under India (in	the control of the Forest Department compared with the	total a	rea of	British
	forest revenue and expenditure by quinquennial periods a	since 186	4-69.	• ,
	owing annual forest revenue, expenditure and surplus for			1919-20

OUINQUENNIAL REVIEW.

Constitution of the Forests.

The following review of Forest Administration in British India during the five years ending the 31st March 1929 is published for general information.

Forest Area.—At the close of the quinquennial period under review the forest areas in British India, including the Shan States, amounted to 249,822 square miles, of which 106,849 square miles are reserved, 6,308 square miles protected, and 136,665 square miles unclassed State forests, the whole representing 22.7 per cent. of the total area of British India (with the Shan States) or taking into account only reserved and protected forests, 10.2 per cent.

2. Forest Surveys.—The area surveyed by the Survey of India amounted to 7,198 square miles, and 750 sheets were published. The cost debited to the Forest Department on account of mapping and publishing and the cost of special surveys, etc., amounted to Rs. 11,47,660 as compared with a sum of Rs. 11 lakks during the previous period.

Organisation.

3. Administration and control.—The appointment of Inspector General of Forests was held by Sir Peter Clutterbuck until the end of March 1926, when he proceeded on leave preparatory to retirement. On the 1st of April Mr. (now Sir Alexander) Rodger assumed charge of the double post of Inspector General of Forests and President, Forest Research Institute and College, and held this post until the end of the period under report except for 8 months in 1927 when he was on leave and Mr. H. S. Tireman, Chief Conservator of Forests, Madras, officiated. This arrangement was sanctioned by the Secretary of State in October 1926.

During the period now being reported on, the Inspector General of Forests visited Burma, Assam, Bengal, Madras, Coorg, the Central Provinces, Bombay, Punjab, Hazara, Bihar and Orissa, the United Provinces, the North-West Frontier Province, the Andamans, and Kashmir. An important step was taken by the Inspector General of Forests in March 1927 when at the request of the Chief Commissioner he visited a number of forests in the North-West Frontier Province and made proposals for the establishment of a proper Forest. Department which would take charge of all the forests of which the Government of India could get control west of the Indus. Owing to financial stringency these proposals were not accepted until April 1930, but in that month an officer was appointed to hold charge of Conservator of the new circle. It is anticipated that these measures will lead to a great advance in forest conservation not only in the North-West Frontier Province itself but in tribal areas such as Chitral, Swat and Kohistan.

During the whole of the period under review "forests" were a transferred subject in the provinces of Burma and Bombay.

The peculiar circumstances of Burma have led to very little, if any, deterioration in the management of the very large and valuable forest estate which exists in Burma. A new service has been organised and the Government of Burma have made their own rules for recruitment and payment of the forest staff.

A further consequence of the "transfer" was separation of the administration of the forests in the Federated Shan States from that of the forests in the rest of Burma. In the Federated Shan States the Commissioner replaces the Chief Conservator of Forests as head of the Department; but the gazetted staff continues on the same cadre with that of Burma and the services of the Working Plans Circle are used for the control of forest management.

Recruitment and training.

4. (a) Indian Forest Service.—As a result of the recommendations of the Lee Commission it was decided that recruitment in future should be on the following basis—

75 per cent. Indians and 25 per cent. Europeans

On the 1st November 1926 the new Indian Forest Service College at Dehra Dun was opened and the following students were trained and allotted to provinces and States between that date and July 1930. (This includes students still under training).

Year.	No. of students trained.	Allotted to
1926-28	. 2 (Government)	Madras.
	1 do	Punjab.
	2	Tehri State.
	6 (Private).	
	1 (Extra Assistant Conservator from Assam).	•
	12	
1927-29	. 3 (Government).	Central Provinces, Madras and Assam.
	2	Mandi & Kashmir State.
	1 (Private) .	· ·
	0	
1928-30	4 45	•
11/20-01/	. 4 (Government)	Baroda State.
	5	
	บ	

The future of the Indian Forest Service College at Dehra Dun is a matter of considerable uncertainty. As a result of the transfer of forests in two provinces, Bombay and Burma, the number of students who have been annually recruited for training at Dehra Dun has been very small. In certain provinces, for example in the Punjab and the United Provinces, the gazetted forest staff has been larger than the local Governments had any need for and this has led to a considerable reduction in the number of recruits who have been trained at Dehra Dun up to date. It was hoped that students would be sent for training at Dehra Dun from other parts of the Empire, such as the Malay States, South Africa, Kenya and Uganda, but up to date there has been no response to the letters sent to these parts of the Empire regarding the opportunities for scientific training available at Dehra Dun. Although the course is expensive it has not been found possible to run the College at a profit owing to the very small number of students who have been sent up for training. During the 5 years under review the following numbers of Europeans have been recruited by the Secretary of State for India and have been sent to India to the provinces named—

Province					ı					No. of recruits.
Madras	•	•	,•	•	•	, o '	•	•		4
Burma	•	•	•	•	•	•	•	.•	-9	15
Central Province	٠, ۶	•		•	•	•	•	••	•	3
						To	otal	•	•	22

A feature of the five-year-period under review is the number of Indian students who have gone to the Universities in England and Scotland for training at their own expense with a view to obtaining appointment in the Indian Forest Service on return to India. It has been found possible to give appointments to very few of these officers, and it is to be hoped that Indian students will avoid this method of trying to get into the Indian Forest Service in the future as it is practically certain to lead to disappointment.

The first examination for the Indian Forest Service was held in Allahabad in August 1926 by the Inspector General of Forests and the examinations of 1927 and 1928 were held at Delhi by the Public Service Commission. The number of recruits appointed at these competitive examinations was as follows—

1926	•	•	• '	•	•	•	•	•	•	•	•	2
1927	•	•	•	•	•	•	•	•	•		•	3
1928	_	_					_			_		4

The total number of officers in the Indian Forest Service in March 1929 was as follows—

(1) Europeans	•	•	•	•	•	•	•	•	•	230
(2) Indians	•	. •	•	•	•	•	•	•	•	90
(3) Burmesa		٠.		_	_	_	_		_	8

- (b) Provincial Forest Service.—On the 31st March 1928, the last Provincial Forest Service students left Dehra Dun and since then the College has consisted of two branches namely the I. F. S. College and the old established Rangers College. Each province is now making its own arrangements for recruiting Provincial Forest Service officers.
- (c) Training of Rangers.—During the five-year-period the Rangers College at Dehra Dun has continued to train rangers not only for the provinces of Upper India but, for Kashmir and other Indian States. The number of students who obtained certificates were as follows:—

1925	•	•	• '	•	•	•	•	•	•	16
1926	•	3	•	•	•		•	•	•	20
1927	•	•	•	•		•	•	•	•	16
1928	•	•	•	•	•		•	•	•	17
1929	•	•	•	•	•	•		•	•	15

Ranger students for Madras, Bihar and Orissa, the Central Provinces and parts of Southern India were trained at the Forest College at Coimbatore.

5. Forest Engineering Service.—As noted in the Quinquennial Review published five years ago, the Secretary of State for India sanctioned the formation of a Forest Engineering Service in 1919. It was hoped at that time that this service would develop into a useful organization, but these hopes have been falsified. With few exceptions it was found that there was little or no work of the special nature for which these officers were trained in the various provinces to which they were posted, and the result has been that a number of them have been or are being transferred from the Forest Engineering Service to the Provincial Forest Departments. No recruitment for this service has taken place since the year 1922.

In addition to the regular Forest Engineering Service a number of temporary Forest Engineers mostly from the United States of America were employed on special duty, mainly in Madras, but it has been found that it has been impracticable to give these officers work on such a scale as to justify the heavy expense of paying their salaries, and their services have now for the most part been dispensed with.

Conservation and Improvement.

cd shows a decrease of about one per cent. in 1928-29 as compared with the figure for 1923-24. It will be noted from the report for the last 5-year-period that considerable decrease took place in the area under fire protection. This decrease is still going on and the policy of most of the Forest Departments is to spend less money on fire protection as it has been found that in many parts fire protection does more damage to the forests of India than good. The percentage of forest protected during each of the five years under report was almost exactly 40 per cent. and the percentage of failure to area attempted has varied

during the same period from 1 per cent. in 1928-29 to 10 per cent. in 1924-25. The percentage of burnt areas must of course vary with the season as in very not dry seasons, for example in the United Provinces in 1929, the areas burnt show a very considerable increase.

- 7. Grazing .- During the year 1928-29 over 14,170,000 animals were provided with grazing in State forests of all classes and out of this number no less than 4,880,000 grazed free. The figures for 1923-24 were 13,300,000 (4.800,000 fire) and for 1918-19 were 13,300,000 (5,800,000 grazed free). Except in Burma the damage done to the forests by excessive grazing is one of the most important problems with which the Forest Department has to deal. This matter was brought very particularly to the notice of the Royal Commission on Agriculture and it was proposed that the officers of the Forest Department should endeavour to deal in a more scientific manner with the grazing probem. Forest officers will probably be sent to certain Agricultural Colleges and other Institutions where they may learn something of the different varieties of grass which provide useful fodder for animals. Undoubtedly, however, little progress will be made in India until it is realised that grazing should be scientifically utilised. Forest areas should be opened in rotation and more use should be made of cut fodder as, at present, the cattle trample more grass than they eat. In parts of India the public have shown little conception of the damage that is done to their own grazing grounds, both in and outside the forests, by the excessive number of useless cattle that are kept, and little progress can be looked for in this respect until the villagers learn to keep a few good cattle justead of very many useless animals.
- s. Afforestation.—Good progress has been made in the important work of afforesting denuded ravine lands in the United Provinces. During the quinquennium the area of plantations increased from 10,000 acres to more than 10,000 acres. In the Punjab 1,171 acres had been reclaimed up to the end of 1928-29. A forest officer was put on special duty in the Punjab to deal with the problem of denudation of some of the hilly dry tracts and it is hoped that the great progress which has been made, for example in the Pabbi hills, will be extended to other parts of the Punjab, where excessive grazing has resulted in very serious damage not only to the growth on the ground but to cultivated areas lower down where floods from the barren hills destroy the villagers' fields.

The following extract is taken from the Review of Forest Administration in the United Provinces for the quinquennium:—

"But the change of policy has been relatively more important than mere territorial expansion. Previously the main object was the afforestation (with tree growth) of waste ravine lands in Agra, Etawah and Jalaun districts for commercial and protective purposes. It became obvious, however, that such tracts are not only the most difficult in the province to afforest (in some cases it is probably impossible), but that mostly they offer little or no prospect of a financial return. Therefore during the last 2 years there has been a notable increase of experimental and demonstration work in the chief types of waste lands that occur in the province (ravine land, bhur, usar, khola), including plantations along canals. Probably the most important feature is the interest shown by Zamindars and hig land-owners in our demonstration areas, quite a number of whom have already started similar operations for improving their waste and uncultural lands at their own expense. It is evident that Government can never treat anything but a very small fraction of the waste lands in the Province which are estimated to cover 25,000 square miles, but if the Zamindars themselves become interested in the work, the possibilities of afforestation and improvement are greatly increased. This interest, shown by Zamindars, has resulted in an increased demand for advice and assistance, which necessitates increased staff in the Afforestation Division, and proposals for expansion are at present before Government. During the last two or three years, and especially as a result of the recent fodder famine, the importance of increasing fodder supplies in the plains districts has been more clearly recognised. The demonstration that mere protection from grazing will give hay crops on harren war plains is a feature of the quinquernium that is already producing

practical results, and a number of usar areas have been and are being taken up for hay production. Similarly, the increased production of hay cheaply and easily on bhur and other waste lands by scattering the seed of good fodder grasses (combined with protection) is a proved fact that will have valuable economic results.

Summarizing the development of the Afforestation division work during the past quinquennium there is a decided tendency to develop more on the lines of the Agricultural Department vie., experiment, demonstration and advice) rather than the usual commercial forestry of the Forest Department."

9. Plantations.—Expenditure on plantations continues to increase, the following being the figures for the last 5 years-

1924-25					•		•	•	6	lakhs.
1925-26		•	,	J	•	•	•	•	7	22
1926-27			•	•	•	•	•	•	8	99
1927-28	•	•	•	•	•	•	•	•	8	23
1928-29						•			9	21

The area brought under regoneration shows a stendy and gratifying increase, and it is evident that a very important point is being realised in most provinces, and that is, that it is impossible to make very large areas of good plantations in any forest during any one year. During the tours of the Inspector General of Forests in various parts of India it was noticed over and over again that when endeavours were made to fell large areas of forests and to replace them with plantations it was almost certain that considerable areas would be failures. The population available for this work is limited and the subordinates who have to control it are often of an inferior description. Even in Burma where the local population take to plantation work very readily, it has been found to be a great mistake to endeavour to form large areas of plantations in any one year. It is being realised more and more that the success of new plantations depends principally on successful results in the first year, and there can be no greater crime in technical forest work than to cut a forest down without having taken proper measures to see that it can be replaced by a new forest. Scientific silviculture and plantations have received much more attention in the Andamans during the period than ever before.

10. Communications and buildings.—Expenditure on communications and buildings continues to increase, the figure in 1924-25 being 30 lakhs and that for 1928.29, 37 lakhs. Penetration into the more remote and isolated forests of India is steadily going on, and the extraction and utilisation of many valuable timbers must depend on useful means of communication. Burma having the largest area of forest naturally leads the way in expenditure on communications, the annual figure having risen at the end of the quinquennium to 10 lakhs: otherwise the larger provinces mostly spend 3 or 4 lakhs each on communications and buildings, and as a rule more is spent on new roads than on new buildings; but it is realised that one of the best methods of supervising forest work is to have good housing for the staff not only at headquarters but in the forests.

Exploitation and Commercial development.

11. Outturn of forest produce.—The average annual outturn of timber and fuel from all sources during the quinquennium under review was 347,800,000 cubit feet against an average of 340,000,000 cubit feet in the previous quinquennium. The amount of timber and fuel extracted from the reserved forests was less during the year 1928-29 than during any other period of the quinquennium, and this accounts to a considerable extent for the drop in the general figures for revenue. This figure may be accounted for by the general difficulties under which trade has been labouring for some time past. Minor products from the reserved forests, which include many products such as lac, on the other hand, kept their position, and the year 1928-29 shows almost as good figures as any other period of the quinquennium under review. Taking the total for timber and fuel from all sources the outturn was well maintained.

During the year 1928-29, 21,200,000 cubic feet were removed by Governinent and 146,000,000 by purchasers. These figures are of course very largely 111-2-22

affected by the Burma figures, as in that province very large quantities of teak are extracted by the more important lessees.

The trade in Lamboos continues to be almost stationary—their value being about 10 laklis of rupees per annum. Bamboos are as a rule mostly extracted by villagers for their own use and for sale in the larger towns. It may be expected that the various schemes for the exploitation of bamboos for the manufacture of paper will lead to a very great development in the trade in this product.

Grazing and extraction of fodder grass has been also stationary for each of the years of the quinquennium under review. It may be noted that with the exception of the more remote forests in Burma, Assam, &c., the maximum amount of grass and other minor forest products have been extracted for a considerable number of years.

12. Exploitation.—The five years now under report have witnessed the initiation and development of certain large schemes, especially in Madras, which have had very indifferent success. It was hoped in Madras, by means of modern American methods, to extract and utilise very large quantities of valuable timbers, but the final result of this work was to prove that this extensive exploitation was not justified either by the stand of timber in the forests or by the possibilities of satisfying markets. The general result of the work during the 5-year-period has been, that the local Government have adopted a much more cautious and conservative policy, and are now content with making small but regular profits.

An important measure was sanctioned by the Government of India for the development of the forests of the Andamans. Hitherto we have been obliged to employ elephants to extract the logs to the creeks among the Islands, but they have never been satisfactory, mainly because the climate and fodder is unsuitable for them, and we have never been able to touch more than the fringes of the 2,500 square miles of the Andaman forests. It has now been decided to employ American methods in the North Andamans and American logging machinery has been purchased, and an American expert has been engaged, to take charge of the work. This work, if confined to forests which are obviously suitable, should be in the highest degree advantageous for the future trade in Andaman timbers. Elsewhere in India a great part of the trade in timber and forest products lies in the hands of small contractors, who are, on the whole, trustworthy if sufficient control is maintained over their operations. In Assam the manufacture of tea-boxes of plywood has made great strides, and has been much assisted by the favourable terms given to the manufacturers. In the United Provinces there has been a considerable increase in the direct supply of railway sleepers, and forest tramways have been successful. During the five years period, more than one million teak trees were girdled.

Mechanical tractors have not proved a financial success in Bombay, but the seven saw mills in that province have paid their way, and at Allapilli in the Central Provinces the saw mill has paid for itself twice over during the five years.

Agencies for the sale of timber.

13. The only agents with which the Government of India dealt were Messrs. Martin & Company who still act as agents for the sale of Andaman timbers in Calcutta, and their London firm also takes part in the sale of Andaman timbers. The agency held by Messrs. W. W. Howard Brothers and Company for the sale of timber from the Andamans and other parts of India, in London, terminated in December 1926, but considerable difficulty has been experienced in winding up this agency and in obtaining a satisfactory settlement of accounts.

A Timber Adviser was appointed by the High Commissioner for India in 1927, and his business has been to deal with the trade in Andaman and other Indian timbers in the London market. It cannot be stated that this

trade has so far been brought to a satisfactory state, as the intense conservatism of the English timber trade, and the difficulty of obtaining a footing for little known timbers, have combined to make satisfactory sales very difficult. We may, however, expect that in the near future these conditions will become easier.

During the 5-year-period under report the following quantities of timber were disposed of from the Andamans—

									c. ft.
1924-25	•	•	•	•	•	•	•	•	1,183,820
1925-26		•	•	•	•	•	•	•	1,411,298
1926-27	•	•	•	•	••	•	•	•	1,610,187
1927-28	•	•		•	•	•	•		2,172,180
1928-29	•	•	•	•	•	•	•		2,469,416

The principal increase of exports took place to Calcutta.

Forest Management.

- 14. Working Plans.—The percentage of the total forest area in British India which is now under working plans has attained its highest figure in the year 1928-29, having risen from 45 per cent. in 1924-25 to 55 per cent. in 1928-29. It is gratifying also to record that in the important forest State of Kashmir very great progress has been made in bringing valuable forests of the State under proper working plans. During the last year of the quinquennium the most important additions to the area of forests under working plans were Bengal, 1,000 square miles, Burma 3,000 sq. miles and Madras 3,000 sq. miles. The total area under working plans rose from 54,000 square miles at the beginning of the quinquennium to 73,000 square miles at the end of the period, and it may be noted that many of these working plans are constantly being revised. The technical efficiency of these working plans varies considerably in different provinces. In Burma there are already 19,000 square miles under efficient working plans, while in Assam working plans have hardly begun. This has been the subject of a special note by the Inspector General of Forests when touring in that province. A number of the provinces have their own special Conservators or Deputy Conservators in charge of Working Plans, and this is a measure which should be adopted for all the larger provinces.
- 15. Panchayat and Forest Village Systems.—In March 1929 the total area under Panchayat management in Madras was 3,400 square miles. The control of these forests is now vested in the Board of Revenue and no technically trained officers are concerned in their management. It is too early as yet to decide whether this management by Panchayat is likely to be a success. Forest villages have continued to increase in number and will increase with the development of plantation work. Here also a note of warning must be struck, as it has been found that, unless forest villages are very carefully controlled, a great deal of forest and money are liable to be wasted.

Exhibitions.

16. The Forest Department was very well represented in the Indian and Burmese pavilions at the exhibition at Wembley in 1924. Messrs: W. W. Howard Brothers and Company, who were then Government agents for the sale of Indian timbers in England, were in charge of the exhibits, and deserve the utmost credit for the methods they employed to show Indian timbers to the best advantage. These exhibits were universally acknowledged to be the best timber exhibits in the whole of the exhibition at Wembley, and have resulted

in a greatly increased demand for many of the valuable and ornamental hardwoods of India, which have been employed on a considerable scale in the new India House at Aldwych.

Financial results.

17. The following statement shows the growth of forest revenue and expenditure during the past 65 years—the figures in all cases being the annual averages of the quinquennial periods:—

Quinquenn	Quinquennial períod.		Gross rovonuo (Averago por annum).	Exponditure (Average per annum).	Surplus (Averago per annum).	Percentage of surplus to gross levenue.		
**************************************					Lakhs.	Lakbs.	Lakhs.	
1864-65 to 1868-69	•	•			87:4	23.8	13.6	36.4
1869-70 to 1873-74	•	•	٠	•	8:83	39.3	17.0	30.2
1874-75 to 1878-79	•	•	•	•	8:08	45.8	20.8	31.2
1879-80 to 1883-84			•	•	88:2	56-1	32·1	36.4
1884-85 to 1888-89	•	•		•	116.7	74:3	42.4	86.8
1889-90 to 1893-94	•		•	•	159·5	86.0	73.5	46.1
1894-95 to 1898-99	•	•	•	•	177-2	98-0	79-2	44 7
1898-00 to 1903-04	•	•		•	196-6	1127	83.9	42.7
1904-05 to 1909-09		•	•	• ;	257.0	141.0	116.0	45.1
1909-10 to 1913-14		•	•	•	296-0	163.7	132.3	41.7
1914-15 to 1918-19	•		•		371.8	211-1	. 1000	43.0
1919-10 to 1929-24	•	•	•		551.7	367·1	1646	33.2
1924-25 to 1928-29	•	•	•		595-1	851-1	241-2	40.0

Most of the provinces show a steady increase of surplus, fortunately not too large in any case.

The slump in trade of the last few years is now evident in the surplus for the year 1928-29 which has fallen to 227 lakks, having been 256 lakks in 1927-28 and 264 lakks in 1926-27. The figure, however, is still a most favourable one and indicates that the forests of India are being properly worked for the benefit of the country.

Research.

18. General.—Under no heading is it possible to record greater progress than under the head of Forest Research during the 5 years now being reported on. In almost all provinces research has come into its own, and in all the major provinces special officers have been appointed for research in utilisation and silviculture. Special officers have also been appointed in some provinces to deal with research in botany and entomology. The general scope and organisation of the work of these research officers is based on the principles observed at the Forest Research Institute at Dehra Dun, where the Research Institute has developed on a very large scale during the 5-year-period now being reviewed. It was decided in 1920 that the old premises at Chandbagh were quite inadequate for the accommodation of the Research Institute, as now required for India, and 1,200 acres were acquired some two miles from Dehra Dun. On this site a very large building has been erected and the opening ceremony was

performed by His Excellency the Viceroy on November 7th 1929. In addition to the main building a large range of Economic workshops has been erected, and quarters for all the staff, from the President down to the lowest paid subordinates, have been supplied. The Institute is now in full swing, and is for the greater part fully occupied. During the year 1930 it is expected that the Bio-Chemist will occupy the new laboratories now being erected for his use and when his transfer takes place, the whole of the Research staff will be on the new site.

A list of the Publications of the Forest Research Institute during the fiveyear-period under review is given at the end of this report.

19. Silviculture.—The most striking development of silviculture during the 5-year-period has been the extension of plantation work. As a result of the appreciation of the fact that economic forestry must depend on the adoption, wherever possible, of some uniform method of management, modern working plans have prescribed in very many cases the formation of regeneration working circles. Intensive fellings have been carried out over certain confined areas, the idea being in most cases to replace the forest felled by means of plantations of various description. The Burma system known as toungya, that is, a combination of agriculture with forestry, has been largely adopted in a number of the provinces of India. Nursery work has made very great strides. Plantations are now fenced, and seedlings are raised in very large quantities both in nurseries and on the original forest land. Along with this has gone the scientific development of thinnings, a most important point in connection with these young plantations.

In spite of all the investigations that have been carried out, the problem of the regeneration of sal in some of the valuable forests of the United Provinces has not yet been fully solved, and the scientific investigation of the regeneration of the splendid evergreen forests of Burma, Assam and the West Coast has only recently been started. These are two of the most important enquiries that are being carried out by the Forest Research Institute and the local Silviculturists, who are all working together for the solution of these problems.

A number of volume and yield tables have been published during the 5-year-period under review, and they will be of the utmost value to working plan others and divisional officers.

In March 1929 a very large and representative number of forest officers attended the Silvicultural Conference at Dehra Dun, the most important Silvicultural Conference that has ever been held in India. The more important subjects dealt with at this Conference were as follows:—

- 1. The relations of Central and Provincial Silviculturists.
- 2. Revision of the Glossary of Technical Terms.
- 3. Standardisation of methods of experimental research.
- 4. Importance of the origin of seed in artificial regeneration.
- 5. Problem of the pure teak plantation.
- 6. Regeneration of evergreen forests.
- 7. Artificial regeneration with selection system in mixed forests.
- 8. Revision and compilation of Statistical Code.
- 9. Methods of research on thinnings.
- 10. Standardisation of methods of stock mapping and symbols.
- 11. Method of calculating sustained yield.
- 12. Rate of interest to be charged on afforestation and regeneration.

In no branch of forestry has such an awakening taken place among forest officers as in the development of silvicultural research. This subject has engressed the attention of a large number of experts, and forestry methods in the provinces have developed very greatly of recent years as a result of these enquiries.

20. Forest Economy.—As a result of Mr. R. S. Pearson's long and able administration of the Forest Economic Branch, the Government of India now has at Dehra Dun a series of forest workshops and experimental laboratories without parallel anywhere else in the world. The value of the experimental work done in this Branch at Dehra Dun is daily exemplified by the unending stream of enquiries which are received from persons doing business in timber and other forest products, not only in India but in many other parts of the world. The officers in charge of this Branch have been for the greater part trained in Europe, America and the Continent, and their technical efficiency is now of a very high order. The greater part of the expenditure on the Forest Research Institute is incurred in the Economic Branch, the budget of this Branch being about 5 lakhs, out of a total of 10½ lakhs, in the year 1928-29.

A considerable amount of utilisation work has also been carried out during the period in Burma, and work has also begun in Madras, the United Provinces and Bengal.

The following are the main heads under which forest utilisation has been studied at the Forest Research Institute:—

Seasoning.—The progress made in scientific seasoning of valuable hardwoods of India in the two types of kilns employed has been very great. Chart showing how the principal timbers should be seasoned have been prepared and the trained staff is available to assist enquiries in organising scientific seasoning. The most important advance made is in the railway workshops at Lillooah, where kilns have been established on the lines advocated at Dehra Dun. As a result of experimental work, seasoning kilns have also been established in the Government Gun Carriage Factory at Jubbulpore. These were under the charge of Mr. Fitzgerald who was for a long time at Dehra Dun, and after leaving Dehra Dun organised the work at Jubbulpore and was in charge of the kilns until his death in 1930. It is hoped to establish kilns in the Andamans for the scientific treatment of the hardwoods obtainable there, as the extremely trying climate of these Islands prevents, to a considerable extent, the export of timbers to Europe in good condition. Scasoning kilns have also been built in Madras and Burma, and the science of seasoning is gradually being understood elsewhere in India.

Wood Preservation.—For a considerable part of the period under report the Wood Preservation Section was unfortunately without an experienced officer in charge. The most important item of research in this section is the treatment of railway sleepers, and during the period under review very great progress was made in the experimental treatment of many hardwoods, to make them fit for use as sleepers in the Railways of India. One of the aims of this section is to prove to the Railways that Indian timbers, although they may be originally perishable and liable to attack by white ants, can be treated in such a way that they will compete on favourable terms with other timbers, which have been imported in considerable quantities from foreign countries, such as Eucalyptus from Australia. Research methods have met with much success, and wood preservation plants have been erected by the North Western Railway at Dhilwan, where many thousands of sleepers are treated annually. This research is of the greatest importance to the Forest Department as it is necessary at the present moment to contend with the increasing use of steel railway sleepers by all important railways.

Timber Testing.—This is a large section of the Economic Branch and has done an immense amount of good work. Under the charge of Mr. Seaman it has developed very greatly, and has now produced results of the utmost value to all timber users in this country. During the last year of the period under report 41,000 mechanical tests were carried out and 39,000 physical determinations. The number of computations in the computing office was 41,000, and many letters and reports were issued. The following important subjects may be mentioned as having been under investigation during the 5-year-period:—

Parts of eroplanes; plywood; timbers for railway carriage work; Picker arms in jute and cotton mills; timbers for piles under water; tea chests; timbers for rifle stocks; timbers for boat building.

The results of the experimental work in this section are tabulated in such a way that they can be easily used by all those interested in the strong hof the timbers, and the results are always published immediately they are available.

Paper Pulp.—Mr. Raitt, officer in charge of the Paper Pulp section, left the Institute in March 1929, and Mr. Bhargava, who had been on deputation to Europe and America, took over charge at that time. The paper and pulp plant has continued to operate successfully throughout the period under review. Many valuable investigations have been carried out, specially with regard to bamboos, one of the most important forest products of Assam, Burma, Madras and Bombay. Although the results at Dehra Dun have not yet led to any very striking commercial success in making pulp from bamboo and grass, it is expected that within a short time one or two large companies will be floated to undertake this work, probably in Burma. In the meantime, work on a small scale has been carried out in Madras and in Calcutta. Woods and grasses have also been the subject of investigation, and much valuable advice has been given on this subject.

Wood Technology.—Dr. Brown, an American who had been employed at the Forest Research Institute for 1½ years, left Dehra Dun in 1923. After that, no officer was appointed to the charge of this important section for some time, but in the year 1929 Mr. Chowdhury, who had been under training in America under Dr. Brown for two years, was appointed to the charge of the section. A knowledge of the structure and qualities of wood is of the utmost importance to all research officers who deal with utilisation, and this section has made considerable progress during the period. In 1925 Dr. Brown published a Manual of Indian Wood Technology, which, although termed "elementary" contained much more than any volume published on this subject before. Dr. Brown and Mr. Pearson are now engaged in the compilation of a very important work on the more important timbers of India. This will be published by the Clarendon Press and will contain full accounts of all the important timbers together with micro-photographs of wood structures.

Minor Products.—This section was more or less in abevance for a considerable time, but a special officer of the Forest Department from Madras was appointed to the charge of the section in 1926. The organisation of the section has taken a considerable time, but useful work has been carried out, specially with regard to medicinal plants, charcoal, resins, briquetting, match manufacture, fibres and turpentine.

Wood Workshops.—During the 5-year-period the wood workshops in their new home have done an immense amount of most useful work. In addition to training Indian carpenters, most valuable investigations have been carried out in the use of Indian woods for plywood, and into the use of hardwoods for making furniture and other goods of many descriptions. The section to a considerable extent is supplementary to the other sections, such as Timber Testing, Seasoning and Wood Preservation. A great deal of original and valuable work has also been done by Mr. Nagle, the officer in charge of this section. Mr. Nagle is now devoting his energies principally to the enquiry into Indian woods for plywood. It is to be hoped that as a result of the recommendations of the Tariff Board an experimental match factory may be established at Dehra Dun, but this has not yet been found possible.

21. Forest Bolany:—During the 5-year-period, Forest Botany has made great strides in Burma and at the Central Research Institute. Systematic Botany has taken the first place in the work and much help has been given to Forest Officers all over India in the identification of specimens. The Forest Botanist has continued to work on Duthie's Flora of the Gangetic Plains, and it is now approaching completion. Experiments have been made to test the effect of soil inoculation on the growth of plants. The gardens in charge of the Forest Botanist have been much improved, many rare and valuable plants have been grown, and a great deal of seed has been supplied to enquirers in various parts of the world.

The work done in Mycology has been most valuable. The newly appointed Mycologist has produced an authoritative record on *Peridermium*, which has

been published. In Burma the Forest Botanist has succeeded in greatly

increasing our knowledge of the flora of that province.

The investigation of the spike disease in sandal has been carried on in Mysore, Madras and Coorg during the five years, but no definite results are available so far.

- 22. Forest Entomology.—Great progress was made under the head of Forest Entomology, not only at Dehra Dun, but also in Burma. The most important insects which have been under special investigation are—the teak bee-hole borer in Burma; the sal borer in the United Provinces and the Central Provinces; and the teak defoliator of Madras. Continuous and well organised research work has been carried out in connection with these insects. The laboratories and collections at the new Forest Research Institute are well equipped, and on a very large scale, and the staff is well trained and has completed a great deal of good work. Besides the three pests named above, many other minor insect plagues have been investigated. The Forest Eutomologist and Systematic Entomologist are in correspondence with experts all over the world, and the Institute at Dehra Dun has acquired an international reputation.
- 23. Chemistry.—The work of the Forest Chemist is to a considerable extent auxiliary to the other branches at the Forest Research Institute. The investigations of various forest medicinal plants, of forest soils, of turpentine, of wood preservatives, may be mentioned as the main headings under which investigations have been carried on, but the Forest Chemist has continually to assist all the Branch officers in their many varied enquiries. It has been found necessary to increase the establishment recently.

Forestry Committee.

- 24. In February and March 1929 a Committee appointed by the Government of India investigated the work of the Forest Research Institute at Dehra Dun, and made recommendations regarding its future lines of work. The members of the Committee were Sir Chunilal Mehta, Chairman, Professor Lindemann of Oxford and Mr. Wroughton of the Bombay Burma Trading Corporation, Limited, Rangoon. The Committee made a most careful investigation into all the work at the Institute and their principal recommendations were as follows:—
 - (1) The constitution of an Advisory Board with representatives from the Governors' provinces, the Railway Board, and Chambers of Commerce.
 - (2) A recommendation that more control should be given to the President.
 - (3) The appointment of a Director of Research who must be a first class scientist. He will be subordinate to the President, Forest Research Institute and College.
 - (4) The appointment of a Personal Assistant to the Inspector-General of Forests and President, Forest Research Institute and College.
 - (5) Centralisation of Branch offices.
 - (6) Improvement of methods of recruitment of the sectional officers and subordinates.
 - (7) The necessity for training officers abroad and for keeping in touch with other similar Instifutions by means of visits. Stress was also laid on maintaining intimate touch with forest officers in provinces, with the Railways, etc.

Protection of the Fauna of the Country.

25. During the 5-year-period under review, public interest was considerably stimulated regarding the protection of the splendid fauna of British India

and Burma. The Society for the Protection of the Fauna of the Empire has had a considerable number of recruits in India, and measures have been taken where possible to protect the rarer animals which are in danger of extermination. In Burma, especially, progress has been made in this respect, a forest officer having been put on special duty as Game Warden to protect the animals. Useful sanctuaries have been made in Burma and elsewhere, where wild animals may be seen in their native haunts. During the 5-year-period 1,200 elephants were captured in Burma. The greatest difficulty encountered in protecting wild animals in India is the fact that guns which are nominally issued for the protection of crops are frequently used by poachers. Many of the finest game animals in India will certainly be exterminated if the issue of guns is not better controlled than at present.

A. RODGER,
Inspector-General of Forests to the
Government of India.

DEHRA DUN; The 12th July, 1930.

III-2-22

List of Forest Publications issued by the Forest Research Institute, Dehra Dun, during the 5-year-period ending 31st March 1929.

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'No. 1.—BULLETINS (NEW SERIES.)	Rs. A. P.
56.—A Roport on the Tan Values of Indian Myrobalans and Burma Terminalias, by J. A. Pilgrim.	0 6 0
67.—Tan Investigation of the Burma Hill Pine, Pinus Khusya bark and Pyinkado, Xylia-dolabriformis, by the same author.	0 8 0
58.—General Volume Tables for 'Chir (Pinus longifolia), by 'S. H. Howard .	080
59.—Summary of results of Treated and Untreated Experimental Sleepers laid in the Various Railway Systems of India, by J. H. Warr.	1 14 0
60 Note on Ainee (Artocarpus hirsuta, Lamk), by C. C. Wilson	070
61.—Eucalyptus in the Plains of North-West India, by R. N. Parker	0 5 0
62.—Proliminary Tield Tablo for Dalbergia Sissoo, by S. H. Howard	0 2 0
63.—Eucalyptus Trials in the Simla Hills, by R. N. Parker	·0 8 0
64.—Summary of results of Laboratory Experiments with different wood Preserving Antiseptics, by S. Kamesam.	1 12 0
65.—Tables for bark deductions from logs, by S. H. Howard	0 3 0
66.—A Note on the Working Qualities of some Common Indian Timbers, by H. E. Kinus.	0 10 0
67.—Chir (Pinus longifolia) Seed Supply, by S. H. Howard	0 3 0
68.—Notes on the Comparative Economic Cost of Wood and Motal Sleepers in India, and Cost of Treatment, by J. H. Warrand H. Tretter (with-	•••
69.—The Mechanical and Physical Properties of Himalayan Spruce and Silver Fir, by L. N. Seaman, a sisted by C. R. Rauganathan.	1 1 0
70.—Hoplocorambyx spinicornis—An Important Post of Sal, by D. J. Atkinson	0 15 0
2.—RECORDS.	
Vel. X, Part VIII.—The Constituents of some Indian Essential Oils, Part	0 8 0
XIII—The Essential Oil from a New Species of Andropogon occurring in the Etawah District, by J. L. Simonsen.	
,, X, ,, 'IX.—Tannin investigation of some Burmese Dipterocurps, by J. A. Pilgrim.	0 7 0
"'X, " X.—The Mangroves of South Tennsserim, by the same author.	°0 15 0
"X, "XI.—Roport on Burma Oak and Chestnut Tans; by the same author.	1 1 0
,, XI, ,, 'I.—The Constituents of some Indian Estential Oils, 'Parts XIV-XV, by J. L. Simonsen.	0 3 0
, XI, , 'II.—Contributions towards a knowledge of Twisted Fibre in trees, by H. G. Champion.	'2 8 0
" XI, " III.—Regoneration with the assistance of Taungya in Burma, by H. R. Blanford.	1 4 0
" XI, " IV.—On Some Indian Brenthider, Parts I—III, by Richard Kleine, C. F. C. Becson and J. C. M. Gardner.	1 .5 0
" XI, " 'V.—The Constituents of some Indian Essential Oils, Part XVI, b. M. Gopal Rau.	0 ,12 0
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(Shore a robusta) for the Central Provinces, by V. K. diaitland.	0 9 0
", XI, ", VIII.—The Economic Importance and Control of the Sal Hoartwood Boror, by C. F. C. Beeson and N. C. Chattorjee.	1 4 0
,, XI, ,, IX.—Summary of Investigations on Bamboos and Grasses for Paper Pulp, by W. Raitt.	0,8,0
,, XI, ,, X.—Notes on the Antiscptic Treatment of Astam Timbers for Railway Sleepers, by J. H. Warr assisted by S. Kamesam.	'1 ¹ 14 0
" XII, " L.—Volume and Outturn Tables for Sal, by S. H. Howard .	1 2 0
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,, XII, ,, VII.—Descriptions of new species of Niponiide and Ceramby-cide from India, by J. C. M. Gardner.	0 6 0

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Stude Special L. S. Fi Special Le for I Forest Re "Progress " " Trogress " " The Dev Project : Project : Project :	ents, by secture of the section of t	L. N. See Notes on and S. N N Tests of the I "" "" "" "" "" "" "" "" "" "" "" "" "	aman. In Timbol. Kapur Sawmill, Idents, b 5.— OTI and Col Research mperial I in s Fore f Indian y to Centy man, C. of Raw Seasonin pur.	Wood Yy W. N. HER Pilege Col. th Work "" Forest Co. "" "" st Resor Timber tength, Sain Indi V. Swee Materia	oning for Workshop agle. UBLICA lendar, I in India ''' ''' ''' ''' ''' ''' '''	P and ATIO 925 928 a for "" " " " " " " " " " " " " " " " " "	Tcol NS. 1923-1926-1926-1927- Dun, d by tl al Sires perties port, b und f ip Sect by S.	24 25 26 27 28 for " " He I tion Fi	193 193 192 192 192 192 192 193 193 193 193 193 193 193 193 193 193	Stud Mar 33-21 24-25 3-26 6-27 7-28 comic N. S men Pean cown W. W.	Biar Seams to of Rait	by ment		1 0 0 6 6 6 2 2 2 2 4 4 1 1 1 2 2 1 1 1 2 2 1 1 1 1	6 12 6 14 12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15		
Stude Special L. S. Fi Special Le for I Forest Re Progress "" Trogress "" The Dev Project Project Project Key to 1	ents, by secture of the section of t	L. N. See Notes on and S. N N Tosting I.—Kilm Ka See of Flor See of Flor N Notes of Flor N N N N N N N N N N N N N N N N N N N	aman. In Timbol. Kapur Sawmill, Idents, b 5.— OTI and Col the an	Wood Yy W. N. HER Pilege Col. h Work "" Forest Co. "" "" st Reson Timber congth, Sain Indi Y. Swee Materia g of Ind.	oning for Workshop agle. UBLICA lendar, I in India of the in India of the in India of the in India of the ind	P and ATIO 925 928 a for "" " " " " " " " " " " " " " " " " "	Tool NS. 1923-1926-1926-1927- Dun, I by that Sires perfices on the perfice by S. Canerjo	For Ro 24 25 26 27 28 for " " H. I tion Fi	193 193 192 192 192 192 192 192 193 193 193 193 193 193 193 193 193 193	Stud Mar 33-21 24-25 3-26 6-27 7-28 comic N. S men Pean cown W. W.	Biar Seams to of Rait	by ment		1 0 6 6 6 6 2 2 2 2 1 1 1 1 2 2 1 1 1 2 2 1 1 1 1	6 12 6 14 6 12 12 12 12 12 12 12 12 12 12 12 12 12		
Stude Special L. S. Fi Special Le for I Forest Re Progress "" Trogress "" The Dev Project Project Project Company to the service of the	ents, by secture of gerald seture of secarch s	L. N. See Notes on and S. N N Tests of Forest "" "" "" "" "" "" "" "" "" "" "" "" "	aman. In Timbol. Kapur Sawmill, Idents, b 5.— OTI and Col The an	Wood Ty W. N. HER Ph. lege Col. h Work "" Forest Co. "" "" st Reson Timber ength, Sain Indi iv. Swee Materia g of Indi	oning for Workshop agle. UBLICA lendar, I in India ''' ''' ''' ''' ''' ''' '''	P and VIIO 925 928 a for "" " " " " " " " " " " " " " " " " "	Tool NS. 1923-1925-1925-1925-1927- Dun, I by tlad Sires perfices or and I ip Sect by S. Canerjo I. How	For Roc 24 25 26 27 28 for " " He I tion Eight E	193 193 192 192 192 192 192 193 194 194 194 194 194 194 194 194 194 194	Stud Mar 33-21 24-25 3-26 6-27 7-28 comic N. S men Penilown W. Tald	Biar Seams Rait	by ment		1 0 6 6 6 6 2 2 2 2 2 4 4 4 1 1 1 2 2 1 1 1 2 2 1 1 1 1	6 12 6 14 8 8 12 12 12 12 12 12 12 12 12 12 12 12 12		
Stude Special L. S. Fi Special Le for I Forest Re "Progress " " Trogress " The Dev Project : Project : Project : Project : Systo Forest E by	ents, by secture of gerald seture of a dian of the secarch sec	L. N. See Notes on and S. N. Notes of the I. Notes of t	aman. In Timbol. Kapur Sawmill, Idents, b 5.— OTI and Col Research mperial I in s Fore f Indian in to Cett man, C. of Raw Seasonin pur. a Simlen ormation crata. De	Wood Yy W. N. HER Pilege Col. h Work h Work Torest Co. "" st Resor Timber cength, Sain Indi V. Swee Materia g of Indi on For	oning for Workshop agle. UBLICA lendar, I in India "" "" Toollege, I "" Toollege, I "" Toollege, I "" Toollege, I "" "" Toollege, I ""	P and ATIO 925 928 a for "" Ochra "" process re Pu Usbers, R. I	Tool NS. 1923-1926-1926-1927- Dun, d by the street of th	For Rocal State of St	193 193 192 192 192 192 192 193 194 195 195 195 195 195 195 195 195 195 195	Stud Mar 33-21 24-25 35-26 6-27 7-28 omic N. S imen inown. W.	Biarrase of Seams. Rait and	by ment		1 0 6 6 6 6 2 2 2 2 4 4 1 1 1 2 2 1 1 1 2 2 1 1 1 1	6 12 6 14 8 8 12 12 12 12 12 12 12 12 12 12 12 12 12		
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STATEMENT I. Area of forests under the control of the Forest Department.

Province.			Forest area i	n aquaro miles	l .	Percentage of forests	
Narao.	Area in equaro miles,	Reserved.	Protected.	Unclassed State.	Total.	to whole area oi Province.	Romarks.
1	2	8	4	5	G	7	8
Bongal · · ·	76,755	(a) G,4 62	(b) 628	3,115	10,535	18 7	(a) Includes 20 squars miles of reserved forests not under the management of Forest Department. (b) Includes 11 square miles of other protected forests not under the control of Forest Department.
United Provinces	106,720	(c) 5,150	4	38	5,201	4.8	(c) Includes 1 square mile of leased forests.
Pnujab • • •	97,231	(d) 1,532	(6) 3,210	W 599	5,341	55	(d) Includes 359 square miles of leased forests but excludes 500 square miles of reserved forests not under the control of the Forest Deportment. (e) Excludes 71 square miles not under the control of the Forest Department. (f) Excludes 235 squere miles of forest and village forest lands.
Burma	182,593	29,190		(9) 93,784	122,074	67.8	(y) lucludes 6,613 square miles without forest growth.
Federated Shan States .	60,614	8,057	***	121,541	24,608	40-6	
Bihar and Orissa	83,083	1,700	(h) 1,271	3	8,073	3:7	(h) Excludes 681 squore miles not under the control of Forest Department,
Aesam · · ·	55,186	6,105		14,302	20,407	36 9	
Central Provinces (including Borar).	99,931	(i) 19,611) -	•••	10,611	19 6	(i) Includes 174 square miles of leased forests.
Goorg	1,592	519	wir	•••	519	32:2	
North-West Frontier Pro-	13,163	€) 2 K	(1.)	9	245	1.8	(i) Evcludes 14 square miles of Civil and Military Reserved Forests. (i) Excludes 105 square miles of civil protected forests and 183 square miles of Guzara forests.
Ajmor	2,767	141		***	141	5.1	10100100
Boluchistan (portions under British Administration)	51,228	313	***	472	765	1.4	, 41, 4
Andamans and Nicobar .	3,143	52		2,138	2,190	69-6	(I) Includes 27 square miles of Tokadi leased forests and 52 square miles of Ryots forests handed over to Panchayots.
Madras	143,257	(1) 18,914	100	(m) 313	19,257	13.4	(m) Reserved lands.
Bombay (including Sind) .	123,250	13,710	1,105	•••	(n) 14,905	12-1	(n) Includes 2,586 square miles of reserved and protected for- ests not under the manage- ment of the Forest Depart- ment.
m, , deaths an				101 46"	240,822	**************************************	
Total 1926-29 ,	1,103,593 1,103,570	1	1		250,110	1	
,, 1927-28 .	1,000,146		8,020	1.	251,755		
,, 1925 26 .	1,000,190				252,280	j	
· " 1024-25 .	1,000,072	103,764	, 8,278	117,851	229,886	20 8	
+		2,870		21,575	21,445		For Fodorated Shan States.

[†] Figures taken from the Census Report of 1921. ‡ Theoloding Delhi Province and Pargana Monpur.

STATEMENT II.

Progress made in Forest Settlements during the year 1928-29.

	Aza	a'ii square mile	81	Cost duri	ng year.	Para
Provínce.	Finally settled during year.	In hand at commencement of year.	Taken in hand during year.	In Porcet Accounts:	In other Accounts	Entire cost per square mile of areas finally settled.
1	2	3	4	5	6	7
				Re,	Rs,	Rs.
Bengal . • • •	1,187	11	1,203	1,079		269
United Provinces	5	10	3			
Panjab • • •	16	16	ase *	•••	•••	
Burmk	. 144	1,793	431	2,167		
Federated Shun States		67	30	30		
Bihar and Orlága	1	2			.,.	
Аянат	22	69	3	16		
Contral Providees . • •	401	107	h==		•••	500
Coorg	1 000	•••		***		
North-West Frontier Province	. 9	9	•••	•••		***
Ajmor		-	499		y+++	•••
Baluchietan		•••	•••		***	
Andamans		53		7.1	•••	1
Madras	1	118	, 11			
Bombay	. 48	150	5 31			
[1923-29	1,43	3 2,33	1,71	5 8,31	2	269
1927-28 .	57	9 1,9'	79 2,32	28,18	3	245
Total . 1925-27		43 2,5	506 5	70, 32,70	12	. ""
1025-26	d		520 6	66 10,1	32	, A.
1924-25 .		551 2,	662 1,0	56 11,0	08	. 1

19
STATEMENT III.
Demarcation and maintenance of boundaries.

-	Length of boundaries artificially	Longth of proviously	Length of previously oxisting	Total length of artificially marked	'Length of ' boundaries not	Longth of natural boundaries	Total length of boundaries	Expenditure tion during	on demarca-
Province.	demorcated during the year.	oxisting houndaries repaired.	boundaries not repaired.	marked boundaries at the close of the year.	demarented at the close of the year.	not requiring artificial marks.	boundaries at the close of the year,	On now work.	On ropairs.
1	2	, 8	4	5	6	7	8	9	10
	Miles.	Miles.	Miles.	Milos.	, Miles.	Miles.	Mules.	Re.	Re.
Bengal	262	1,139	1,295	2,600	325	1,174	3,095	1,099	8,636
United Provinces	25	2,810	5,762	8,637	2	2,653	11,492	2,679	20,663
Panjab · · ·	23	1,828	G,521	8,375	3	1,416	0,798	1,349	5,980
Burma	357	3,316	13,019	17,622	157	8,307	121,036	5,306	83,505
Federated Shan States	15	277	1,013	1,8,1	140	523	1,801	\$59	1,643
Bihar and Onera .	101	2,812	1,864	4,800	,40	884	5,233	704	2,862
Assam	9	1,237	1,315	2,561	20	2,302	4,683	510	10,401
Central Provinces ,.	372	7,995	23,858	31,755	GO	3 ,351	35,121	67	20,70\$
Coorg	•••	92	377	469		67	536	•	2,223
North-West Frontier Province.	e	tis	630	777	•••	139	อเธ		1,153
Ajmer . ; -	***	13	220	233	•••	158	591	***	297
Baluchistan	•••	2	. 455	460	***	77	637	47	រ
Andamans	•••		•••	36	36	23	59	***	
Madran	250	15,024	6,431	22,602	408	2,465	, 26,252	6 ,850	3,942
Bombay	100	25,126	13,034	38,260	46	2,620	41,136	680	3,706
•									• .
€1,000,00	1 100	70 470	ne nov	140,033	808	at ort	163,419	do uro	1.10.100
1928-29 .	1,523	C2,7 59	76,327	190,000	805	21,061	100,410	20,759	1,16,120
1927-28	816	G3.67 5	75,613	186,037	1,057	20,936	162,044	16,509	1,07,758
Total . 1926-27 .	1,095	63,036	76,880	141,769	1,134	20,713	163,580	25,096	99,782
1925-20	438	69,057	79,601	119,412	1,405	20,672	171,618	9,849	1,05,757
1921-25 ,	903	69,697	78,784	110,863	1,606	21,228	192,697	17,101	1,00,420

20

STATEMENT IV. Forest survey Operations from 1st April 1928 to 31st March 1929.

		N	Inture	of enr	су оре	ralions.				Expenditure of	
Province.	Forest surveyed.	1" Detail s		De:	ail	Detail s		0	aron if eurvoy.	the year including mapping and publishing	Romarks.
		Area	Cost	Area.	Cost	Area	Cost	1928-29.	Total up to date.	oharges debitable to Forests.	
1	2	3	4	5	G	7	8	9	10	11	12
Andamans .	•	188		411	•••	•••	545	400	527	Bs. A. P.	
Assam	***	41				•••	***	n.,	, 5684 1	*****	
Pengal , .	Buxa	18				-11	***	45·18	4751-7		
Bihar and { Orissa.	Hazaribagh	18-86				•••	***	(a) 18 36 3-33	2100 05	******	(c) Of this 15:97 Sq. Miles are supplementary sur- vey and 2:39 sq. miles original survey.
иพ. г. р.	des	***	411	***				•••	163 00	****	original survey. Cost of surveys not debitable to Forest Department,
Baluobistan	***	-				***			2,113	100.	
Panjah	Changa Manga					20 0	64.6	20 0	4595 0	1,001 0 0	
United Provinces.	•••								71427	gyjaha	
Ajmor .	494							.	172 01		
Hadres	Lowar Godavari			116	533	,214		(b) 116	18311	6,120 0 6	(b) Actual survey 42 sq miles overlap survey 74 sq miles.
India	499			1				***		9+4±1±	
Coorg	***		٠,	***				*116	478	*4****	
Control Pro-	eed							•••	19535	40-40h	
Bombay	,		71.	**		***	170.	set	13232 9		
•	Henzada and Maubin .	761-13				4.62	[768•76 •)	,	8.5 L. M. of Boundary Survey.
Burms	South Arakan	205-28			•••	***	(6)	203-28	,		(c) Cost is not dobitable to Forest Department.
	Thayetmyo	12.98				,	,	13-36	,		,

STATEMENT IV-contd.

Forest survey Operations from 1st/April 1928 to 31st March 1929—contd.

-t -		1 ,	Ya barra	of my	THE AN	erations.			,		
Province.	- Forest <i>surve</i> yed.	1" Detail su	1		ati	4. Detail s		Tótal of detail s	area	Expenditure of the year including mapping and publishing oharges	Remarks.
	,	Area.	Cost	Area.	Cost	Area	Cost	1928-29.	Total up te date.	debitable to Forests.	
, 1	2	8	4	5	6	7	8	9	10	11	12
										Rs. A. P.	
	South Pegn			60	•••	₫ \$ 00		(e) 31		RB. A. P.	(e) Includes Rs. 112 cest of 2 L. M. traversed after 31st March 1928, Rs 1,637 cest of computation of 61 L. M. traversed (58 L. M. last year 2 L. M. this year, Rs. 8,304 cest of 31 sq. miles surveyed before 31st March 1929 cost of balance 3 miles will appear in 1929-30, and cest of 23 L. M. of traversing commenced after 21st March 1929, and completed before 30th June 1929 will appear in next return for 1929-30, also cost of 6
	Katha					61.18	***	(f) GP-18		0.45.050.5.5	sq miles of Tamabin Reverve Forest Re- vised on 2-inch scale. (f) Excludes 4.75 sq. miles of unclessed
	Mansi			,		166 69		(g) 166 60	250140	2,43,670 0 0	forests. (a) Excludes 0.08 sq. mi ¹ es of unclassed
	Upper Chindwin (h)										forests. (h) 116.7 L. M. of bonn-dary traversing and 20.3 L. M. of tie lines
Burma-conid											were done cost for this
,	Inscin (d)	,	***		•••		•••	,,,		,	Department. (a) Includes Rs. 5,455 cost of 18 sq. miles on 4-inch scale surveyed last year and cost of fair mappine. Includes Rs. 567 the cost of traverse computa- tion of 51 L. M. t.a- versed last year and Rs 560 cost of sarrey of 4 sq. miles surveyed after 31st March 1923
,	Magwo							-		\ '	in svagen 1937-25.
	Meiktila ,							h			•
	Yamethin							-	 		,
	Prome					.,,		101			1
	Dolla								'	ŧ	, '
	Thaton								.		,
	Mu (6)								IJ	1, 1	(i) Cost of survey to end of field season 1927-28
	•		1	1		İ		,			(area reported in ferm 10 of last year) and cest of mapping.
·				1	-	<u> </u>	1.	-	1	7	
TOTAL 1928-2	19 lst April 1928 to 316 March 1029.	1006:4	ß	122		800-52		1474 11		Rs. a. r. 2,57,791 0 0	
1927-9	S lat April 1927 to 31: March 1928.	1271-5		88		1773-83		8,088 82	101075-69	2,25,830 0 0	86,000
s, 1926-2	7 1st April 1926 to 81s March 1927.	it 47	7	743		162	1	1882	97033	2,10,871 6 (86,000
,, 1925-2	1st April 1925 to 31 March 1926.	385	2	218		400		1006	96600	2,46,983 2 0	86,000
1021-9	15 lst April 1924 to 81 March 1925.	st . 750		61		205	•	1212	95591	2,05,175 11 (30,000
3		-			4					۱,	·

STATEMENT V.

Progress made in working plans.

	Aro	a under sano	tioned work	ing plans.		Arost	ot under wo	rking plan	,		Revisio	ds.	
	ij			At olose you.			Plans not u	ider prepai	ation.		of the		en e
Peovince.	At commencement of the year.	Added during the year.	Deducted during the year.	Actual ares.	Porcentage of total forest area (as shown in column 10).	Plans ander proparation.	Required at present.	Nat required at present.	Total forest area in State- ment I. (Total of columns 5, 7, 8 and 9.)	Das or required.		actioned	Expenditure on working during the year.
1	2	3	4	5	G	7	8	9	10	11	12	13	14
Bengal	5q m 6,616	Sq. m 1098	Sq. m. 1,103	Sq. m. GSII	CT.	Sq. m.	\$q. m. 	59 m 8,723	Sq. m. 10,575	5q. m.	69. in. 4,576	.m. p3	R. 6,059
United Provinces	5,023	6	20	4,972	03	1(3	1	ន	5,201	••	1,403	702	41,424
Panjab	2,511		3	2,503	17	26/	1	2,013	6,942	.,	557	139	2
Barms	15,72	8,241	53	18 013	C\$	6,233	3,215	0 (23)	12),100 20,100	ឆ	3,777	1,191	ස,සෑ
To erated Shan States	1,136		v	1,133	57	57	41	c0a,r	(a) 3,667	194	<i>,</i>	**	••
Bihar and Oclasa .	2,01	4.4	Be a	2,011	65:11	181		613	3,0:3		223	94	1,763
Ārzam	. 24	o	•••	215	1.9	1,70	2,531	15,591	27,477	314	***		7,477
Contral Provinces	. 17,59	2 221	0	17,503	63		22	2,111	10,011	\$33	1,426	3,546	***
Coorg	. 51	9	040	\$19	100		***		510	¢19	147	<i>p</i>	***
North-West Front. Province.	er 21			252	100	150			215	474	76		2,457
Ajmor	. 1		-	151	700			***	111				
Baluchistan ,					/	1-11		763	242		 -	-	
Andamans	. 7	03	,	70	324			1,192	2,193	221			
Madras	. 5,8	23 2,91	5	8,703	3 40	3,51	1 2,524	4 378	19,620			•••	
Bombay	. 8,3	135 22	6 212	8,011	61	37	3 600	8,230	(r) 12,552	1,180	\$80	223	9,910
75 TOTAL 1928-29	. 60,1	665 7,71	1,439	72,57	0 £5:	12,40	3 7,071	30,463	131,909	2,677	13,279	5,690	1,41,70
, 1927-28	. 63,	191 1,93	3 12:	65,24	5 41.9	10,6	13,255	42,417	132,310	2,001	17,206	1,082	88,92
, `n 1026-27	. 60,0	150 4,02	310	63,71	7 47	10,2	54 14.16	44,33:	183,18	6,128	13,608	1,564	2,08,29
1925-26	. 61,	130 30	26	0,00	0 40	2 10,5	55 17,11	42,76	132,663	1,705	8,700	251	1,71,5
1021-25	51,	313 3,33	50 53	51,35	7 41.	G 9,4	21 16,79	41,22	121,71	4,323	6,230	1,403	1,03,3

⁽c) Excluding unclassed forests.
(d) Includes 58 aguare miles of reserved lands and 45 aguare miles of leased forests under working plans, which if added to figures shown in column 3 of Statement I (excluding Tokadi leased forests 27 aguare miles) will arree with this total.

(i) Includes 23 square miles of Kanara Coast Division, which if added to figures shown in column 6 of Statement I (after deducting 2,586 square under Forest Department) will agree with this total.

STATEMENT VI.

Expenditure on communications and buildings.

	Now 1	Works	Repa	irs.		
Province.	Buildings.	Roads and paths,	Buildings.	Roads and paths.	Other Works.	Total.
1	2	3 ,	4	-5	6	7
,	Rs.	Rs.	Rs.	Rs.	Rev	Rs.
Bengal	61,765	8,025	48,847	, 49,436	20,593	1,88,766
United Provinces	99,351	84,906	1,29,725	1,42,342	30,688	4,37,012
Punjab ,	68,793	18,187	27,182	84,204	15,478	1,64,194
Burms	2,45,786	3,75,366	1,21,791	1,67,125	86,820	9,96,588
Federated Shan'States	6,926	9,628	5,165	4,819	7,191	27,749
Bihar and Orissa	58,00 9	30,037	26,253	36,097	11,468	1,61,864
Aesam	68,407	44,461	26,581	1,41,237	23,547	3,34,236
Central Provinces	1,06,621	1,19,419	67,275	58,439	47,613	4,29,565
Coorg	5,443	6,417	6,319	5,951	1,895	26,085
North-West Frontier Province	20,611	19,265	2,823	4,591	1,495	49,085
Ajmer '	2,639	690	258	1,280	'745	' 5,621
Baluohistan	647		192	95	•••	934
Andamaas	, \$6,935	2,460	9,904	697	60,667	1,90,663
Nadras	71,12,475	89,259	66,225	-99,914	12,053	"3,79 ,9 26
Bombay	73,788	71,799,210	39,136	1,06,080	16,414	8,74,664
ı				•	,	1
						(
ì						
Total 1928-29	9,88,396	8,98,325	, .6,07,229,	, 8,82,607	8,30,695	87,07,252
,, 1927-28	11,04,650	7,80.863	5,95,673	9,93,450 ;	2,51,631,	36,75,977
· " 1926-27	9,46,939	8,27,657	5,54,748	, 8,85,997	2,56,612	34,71,948
, , 1925-26	5,76,767	5,82,538	5,18,251	7,68,474	2,19,498	26,65,828
1024-25	8,72,745	76,65,589;	5,10,974	. ''7,07,858	2,01,766	29,58,862

STATEMENT VII.

Breaches of forest rules.

			\top		New Ca	ses of t	he year.		\top	ì			Dispose	d of dr	ring t	he ye	er.		
			-) to	8 B	\$#			_		Co	nvictio	on.	Aoqui	ttals.		Tota	i.	•
Provin	O8•	Cases pendin from 1927-2	8. for	in post in its py is.	or appropriation of wood and minor forest produce.	mission, or in trac in which grazing prohibited	Other offer-	Total nev case of the year	es he	Total cases.	Cas		Por-	Cases.	Persons.	Ca	1968	Per-	Cases pending at close of year.
1		2		8	4	5	6	,	7	8		9	10	11	12	_	13	14	15
	<u>ΓΔ</u> .	-	54		131	18	69		218	272		188	428	80	15		168	579	95
Bengel .	. {B		96	2	1,422	1,698	1,254	4	,876	4,472	4,	,400	7,829	5		5	4,405	7,834	66
	Lc.		.	84	286	6	19		845	845	Ŀ	"	***	***		_			
!	Total .		150	86	1,839	1,722	1,342		4,039	5,089	4	,688	8,255	85	18	58	4 573	8,418	161
	(A.		36	17	83	26	49		119	155		78	299	19	i	72	97	871	57
.United vinces.	Pro- B.		470	118	1,644	1,775	987		4,524	4,994	1	1,015	10,441	389		69	4,401	11,310	590
ATTIONS	₹c.		.	190	70	13	49	²	315	315						_ _	•••		<u></u>
	Total		506	825	1,747	1,814	1,075		4,958	5,464			2,197	408		09	4;501 1,448	2,600	1,218
	A.		1,092	17	£10	6,467	8,66	1	1,599 3,786	2,691 15 016		1,293 1,481	18,648		1		11,481	13,649	2,207
Punjab .	{B C,	1	2,130	43 119	3,616 16	44	1	ı	257	25			•••			.	•••	•"	***
	-	<u> </u>		179	4,172	7,01	4,21	_	15,642	18,86	1	2,774	15,845	15	,	\$10	12,920	16,25	3,425
	Total	-	3,222		┝╌	;	-			2,86	- 	3,716	2,351	18		511	1,900	2,86	
	[A	ł		 2	1,084 7,171	41			1,462 9,538	11,31	1	9,023	10,654			.	9,022	10,65	
Burma .	· · {B				,,113 G4	1	, -, -,	8	79	7	- 1					.	•••		
					8,200	50	2,3	<u> </u>	11,079	13,75	1 ;	10,738	13,00	18	4	511	10,922	13,51	2,150
	Total (A		2,672		0,200			5	5		6	5	1		1	1	6		4
Federated States	i	- 1		•••	10	1	5	15	187	1	0	117	14		1	•	117	14	"
Diated	lo	٠		•••	<u> </u>	<u> . </u>	<u> </u>		***	"	66	122	14	\' '		1	, 123	_	15 *16
	Total	.·	*14 69		1 10	-[!	20 01	272		1	201	51	_	52	207	260		08 21
Bihar an	d Oriees 1	1	171	10		1		50	2,056		27	2,106	5,21	8	1	1	2,10		1
	- 1	o.		_ 60	2			.	80		60			•••		•••			
	Total		210	7	6 1,8	0 3	53 1	20	2,408	2,6	48	2,307	5,78	4	68	268	2,37	0 6,0	
	c	<u>. </u>	97		17	0	11	70	251	1 8	48	240	89	6	30	112	27	1	08 66
Assara		,	211	1	2 1,00	i	40	505	1,54	7 • 1,7	61	1,578	2,30	8	2	5	1,57	5 2,3	,
	Į	c.	•••		1		-	-		1	1	***			_ -	; "	<u> </u>	_	
	Total		311		3 1,1	70	51	575	1,79	9 2,	110	1,822	2,70	4	32	117	1,85	-	- 1
	ſ	Ά.	- 60		7 1	15	140	34	29	6	B56	251		29	60	167 8	18,02	- 1	790 45 231 1,815
Central vince	Pro-	В.	2,178	1	01 7,4	56 9,	1,006	,012	1 17,66	1		18,01	7 48,0		11		10,02		
	į	.o.	***	6	22 7	80	GD	55	1,48		482	***	_	ļ	71	175	16,3	39 49,	047 1,860
	Total		2,238	8 6	20 8,	107 9	215 1	,101	19,49	21,	681	18,26	8 48,8	<u> </u>	-		1		10
•		ra.	:	2	. .		2	1		8	5		4	8 43	8	2 14	1	5 43	57
'_ Coorg	• • •	В.	:	1 .		15	17	10		42	43	8	444			í			
W	* Total	io.		3 .	<u>:</u>	15	19	11	***	45	48	<u> </u>	19	51	9	10		8	67
e	~	ΓΔ.	18		18	63	20	-19		78	362	19	" {	347	32	. 10	3,7	29	423 128 520 7
From yine	h-West ptier Pro-	1 1	***				,272	42	3,9	93. S 52	,093 52	3,98	56 5,	- 1		.î. 	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	i	
'.	Total	ic.	18	 S <u>4</u>	15 35 I	776	20 ,351	61	4,2		,407	4 18	!	867	32	7	6 4,2	15 5	913 135
- 12 m	Burma and	Fedor			es have t	ot show		itely "	A", "	B," and	" C	' in co	lumns 2	and 15	The	y hav	e Livėn	the tot	als only
	,			1	,								17.			•	•	,	
ę.							•	-				\$	5.74		•		•		

STATEMENT VII-contd.

Breaches of Forest rules-contd.

 					nses of	-				I	Disposod	of durin	g the yes	r.	
,		Casos	,	ling n of inor	per- acts g is				Conv	iotions.	Acqu	ittals.	Tol	als.	
P .	rovince.	pon- ding from 1927-28.	Injury to forest by fire.	Unauthorised fellor or appropriatio wood and m	Grazing without per- mission, or in tracts in which grazing is prohibited.	Other offer ocs.	Total now cases of the year.	Total cases.	Савев.	Persons.	Casos.	Persons.	Cascs.	Persons.	Cases pend- ing at close of year.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	ζΔ.	3	•••	1,1	4	1	5	8	7	13	1	3	8	16	
Ajmer	В.	141	12	322	1,322	20	1,676	1,876	1,676	3,380		٠,,	1,676	3,356	
·	{ o.	•••	1	400	444	***	1	1			•••				
	Total .	3	lg	322	1,828	21	1,682	1,685	1,683	3,399	1	3	1,684	3,402	
	٢ A.	11	•••	15	14	8	82	43	27	79	4	11	31	90	12
Baluchista	в а	***	•••	88	177	7	222	222	222	309			222	309	
	{ o.	•••	644		144	***	•••	•••			•••				
	Total ,	11		53	101	10	251	265	249	388	4	11	253	399	12
	ſ Å.	1	110	4	,	**1	4	5	£	5	1		5	5	
Andamani	B.			•••	••1	491	440	to:	•••		•••		J++	•••	***
	Lo.		*11	***	410	•~	***	•••	***	•/-	***			*	•••
	Total .	1		4		***	5	5	5	5	1		5	, 2	
	۲۵.	1,616	47	3,197	616	218	4,108	5,920	2,710	7,789	2,031	5,935	4,794	13,074	1,132
Madras	. , B.	2,863	171	15,069	8,103	1,011	19,384	22,217	16,192	82,421	1,919	4,586	18,141	37,007	4,105
	₹ o.	5	842	332	24	21	1,222	1,227	***	•••	***	111	•••	•••	110
	Total .	4,656	1,060	18,598	8,773	1,283	21,714	29,400	18,902	40,160	4,033	10,521	22,035	50,6\$1	5,237
	Γ Δ.	193	37	226	77	91	434	627	880	836	62	152	443	986	185
Dombay	} B.	1,022	252	8,513	0,391	2,055	17,211	18,263	16,481	37,765	4	6	16,485	37,771	1,778
	c.		1,600	1,471	32	41	3,419	3,401	***	441	***	***	178	•••	
	Total .	1,215	2,168	10,213	G,500	2,223	21,121	22,381	16,861	38,601	66	158	16,927	38,759	1,963
	ſA.	8,620	156	5,718	1,612	1,475	8,0\$6	13,500	7,261	15,669	2,725	7,871	10,086	28,710	2,962
GHA	ND TOTAL B.	9,145	793	49,723	33,023	12,613	95,187	107,118	E9,323	177,951	2,360	5,495	91,659	183,446	10,8 59
,	₹ø.	' Б	8,783	8,015	215	270	7,283	7,880	t		•••			ε ¹	***
Total	1028-29 .	12,770	4,787	58,451	34,860	11,388	112,450	125,004	96,581	103,520	5,091	18,808	101 745	207,186	13,820
31	1987-28 . , .	13,338	4,366	57,518	85,016	13,291	110,221	125,290	97,501	197,061	6,051	14,081	103,612	211,115	18,035
13	1920-27	12,424	4,095	57,883	36,033	12,653	110,160	124,617	05,676	198,907	5,615	14,030	101,251	212,957	18,329 ¹
P	1025-26	14,627	4,270	51,554	36,126	11,710	100,020	110 950	03,921	109,622	6,507	17,273	100,433	215,796	11,608, .
j. 11	1924-25.	16,413	d,397	53,402	31,018	10,134	101,685	116,025	90' 100	108,111	6,017	15,878	26,456	213,080	12,625
N. R.	-A. Cosos falcon	into Ckm	1			***********					·			·	<u>i-</u>

N. B.—A. Coses falcon into Chart.
B. Cases compounded.
C. Undetected chass.

STATEMENT VIII:

Area protected from fire.

				Area it	equare es.		failme	tage of to area pted.	· , -
Prov	ince.			Attempt- ed.	Protected.	Percontage of forests' under fire protection to total' area of reserves.	Average of past five years to 1927-28.	, 1928-29, [‡]	Remarks.
	1			2	3	4	5 '	ı 6	, 7
Bengal	•	•		1,544	1,641	23.0	28	0-2	, }
Upited Provinces .				3,278	8,223	- 68.2	- 1.9	1.6	
Punjab.	•	•	• •	1,322	1,316	863	1.04	0.4	
Burma • •	•	•	•	124	117	0.43	7-8	₿.6	
Federated Shan States	•	•		4	4	0·13	,	141	
Bihar and Oriesa .	•	•	•	ı1,542	1,495	85-7	4.4	87	
Assam	•	•	• •	65	£0	1.08	52·6	· 23·0	
Central Provinces .	•	•	•	11,588	10,994	5819	Б ∙8	51	
Coorg	•	•	•	186	185	35.8	2.8	0.₽	
North-West Frontier	Province			87	85	. 32·R	4.8	2.3	
Ajmer	•	•	•	140	' 139	- 99·3		07	•
Madras	•	•		15,108	14,374	79.8	2.9	4·8	
Bembay	•	•	; .	9,007	8,487	65-7	3,7	5 •8	
•				, , , , , , , , , , , , , , , , , , , 					
Total 1928-29 .	f•	•		43,993	£1,993	41.1	3.8	4.5	
" 1927-28 .	•	•	'. .	42,173	40,208	39 0	8.2	4.6	-
, 1928-27 .	.'	•	• .	, 38,814	87,059	30.0	9.0	20	
1925-26	•	•	•	41,941	40,811	899	57	280	•
" 1924-25	•	•		[14,20 1	42,847	42.6	10-0	3·1	

STATEMENT. IX.

... Causes of forest fires.

Province.	Tires ooi in Depar fire cons oper	tmental	Extorna cross the trac	ing Aro	· Fires di careless of puisid	ness	Fires or fro intent mal	ion or	Fires d unkno cous	awa	Total.	
1	2	8	4	5	8	7	8	0	10	11	12	13
	No.	8q. M.	No.	Sq. M.	No.	Eq. M.	No.	Sq. M.	No.	Sq. M.	No.	Sq. M.
longal · · · ·	1		5	Ω	17	1	1		10		34	3
Inited Provinces • • •	51	5	40	10	105	16	31	18	49	G	276	55
'anjab	3		19	2	117	2	63	8	4	1	193	8
Burma	6	set	7	1	27	2	14	3	n	1	63	7
oderated Shap States .					tat					.,.	•••	•••
lihar and Orisan	. 10	6	11	7	13	(2		61	38	90	57
Aceam	. 20	8	5	6	1	٠	,	1	1		36	15
Central Provinces . '.	. 8	1 18	181	106	210	14	5 1	6	603	325	974	593
Coorg		б	1				1	0	***	***	17	
North-West Frontier Province					,		2	7			38	1
Ajmer	1	1	"	•••	10		1	***	1		12	1
Balnchistan . • •						"			,		\"	
Andamans			162		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				/"			
Madtes		30	8 10	111	5 33	0 2	31 3	00 14	87	9 212	1,650	730
Bombay		29	2 20)2 10	3 67	6 1	17 1	43	1,13	318	2,168	616
		-	_		_		_	_		_		-
" Total -1928-29	`	95	52 0	tk 92	2 1,51	13 0	21 5	98 1	32 2,66	0 02:		2,09
,, 1927-28	, ,	24)1	30	1,38	15 4		26 6	84 2,13	79	2 4,900	2,06
, 1926-27	. 2	46	78 , 40	34 14	2 1,31	17 . 2	-	ם מלי	1,81	77 64	4,520	1,29 2
" 1925-26		72	33 60	01 17		34 . 3	17	03 1	23 1.88	38 . , , 62	0 4,418	1,27
1024-25		88	19 . 4	17 , 16	0 1,25	8 6. 2		1 1	14 1,74	14 . 73	2, 4,24	1-
	1		. 3	·		<u>}.</u>	1.				ţ	E 2

STATEMENT X. Area closed and open to grazing.

Area	in	Square	Miles.
------	----	--------	--------

							Closed anim			Open to g	razing.			
Province.							Wholo	Part of year.	Of all an	imale.	Of all anims browsers (sheep and	camels.	Total area as shown in Statement No. I (Col. 6.)	
	1						-	Whole year.	Part of year.	Whole year.	Part of year.			
						2	3	4	5	6	7	8		
Bongal .	•	•	•	,	•	$\overline{\cdot}$	6,284		4,125		68	63	10,535	
United Provinces				•	•	\cdot	2,051	70	2,221	10	821	28	5,201	
Punjab				•			882	95	4,198	138	840	189	5,341	
Burma							22,014	••	58	185	2,455	4,418	122,974	
Federated Shan Stat	es						2,209		•••	81	717	61	24,608	
Rihar and Orissa		•			•	$\cdot $	613		661	•••	1,560	236	8,073	
Assem	•		•	•			4,338	• • • •	14,497	***	1,572	•••	20,407	
Central Provinces			•		•		2,938	54	8,440	12	18,214	42	19,641	
Coorg	•	•			•		80	489		***	***	439	519	
North-West Frontic	t Pr	ovince					68	,,,	В	***	174	••	24	
Ajmer	•			•			57	81	,	****	3	81	141	
Baluchistan .	•	•			•	•	174		91	37	•••	11	78	
Andamans .			•	•			52		; ; ; ;	***	358	,,,,	2,19	
Madras	•	•	•		•		1,864	52	12,910	207	844	9	19,28	
Bombay	,		•		•		1,678	279	3,538	,,,	0,412	***	14,90	
	ſ	1928-2	9 .				44,809	1,070	45,747	670	31,533	5,607	249,82	
		1927-2	8.	•	•		44,576	1,672	49,861	899	31,028	5,400	188,31	
Total	-	1926-2	7.	•	•		44,699	1,707	51,291	641	80,401	5,286	184,03	
		1925-2	8 .				45,109	1,731	50,240	573	80,470	5,679	133,80	
,	1	1924-	15 ·		: :		45,856	2,036	51,842	569	29,782	5,640	185,72	

STATEMENT XI. Protection from Cattle:

STATE Protection

				1				Graze	d on pays	nent, numbe	r of animals.			
Provis	acc.					_ Δ	full rates.		At privileged rates.					
					Buffaloes.	Cows and bullocks.	Goats and sheep.	Camels,	Other animals.	Buffaloes.	Cows and bullocks,	Goats and	Camels,	Of the sale
1					2	8	4	5	6.	7	8	9	10	11
Dengal .	•	•	•	•	2,687	24,671	204	***	30	451	16,983		,,,,	3
United Provinces				•	62,659	154,753	122,863	2,676	2,333	6,653	23,511	8,370	180	igs
Panjab			•	•	11,717	40,845	453,917	21,385	616	843	9,320	479,914	,	146
Burma	•				4,577	20,580	784	17	144	***	<i></i>			449
Foderated Sunn States		•	•	٠	3,612	1,403	***	444	•••	***	***	ter	•••	444
Bihar and Orises	•	•	•	٠	9,810	20,125	1,898	•••	4	8,773	18,021	,	***	***
Assam	•	•	•	•	12,913	5,884	873	ap.	181	371	494)		414
Central Provinces	•	•	•	•	279,126	705,835	351,871	37	3,236	141,167	1,841,672	1,503	***	66
Coorg,	•	•	•	•	872	3,866	109	***		,,,,	***	***	0)2	
Korth-West Frontier I	Provi	10é	•	,	2,631	4,351	368	•••	30	474	400	** *		
Ajmer	•	•	•	٠	1,711	12,660	***	2	***	4,598	16,540			
Balachistau .	•	•		•	27	1,062	9,007	•>•	113	***	1 00	•••	•••	474
Madms	•	•	•	٠	81,000	1,079,878	989,860		35	19,150	109,558	105,914	***	
flombay	•	•	•	•	28,690	88,742	145,778	753	5, 901	231,162	1,077,297	874,052		3,313
		•								[
•	l'otal	1928	-29	•	501,532	2,171,030	3,075,688	24,870	12.609	412,668	3,112,907	969,838	180	3,596
ı	20	1927	-28		495,896	2,142,272	1,902,215	57,641	14,667	, 396,818	3,082,466	1,016,694	•14	4,146
e ,	n	1926	-27		493,666	1,822,588	1,517,086	110,403	13,150	883,373	3,022,782	971,465	896	4,239
1.	**	1925	-26		483,186	2,249,581	1,635,230	39,670	18,453	372,472	2,907,023	1,012,376	1,139	4.547
, J		44- .		′	L			,						6,638
	**	1924	+2D	•	1,70	5,579	1,552,869	61,763	13,467	9,387	JI44	1,0:0,127	741	1 4,00

MENT XI.
from cattle.

) .	. ,	•	Grazed	free, ilamb	er of animals.					
		tht under softle	emont.	•	During please	ro of Governm	ent or otherwi	so than unde	r sottlement.	Total number of animals
Buffalocs.	Cows and bullocks-	Gonts and sloop.	Camols,	Other soumple,	Buffaloes.	Cons and bullocks.	Goats and aheop.	Camels.	Other animals.	grazed.
12	13	14	15	16	17	18	19	20	21	22
*** ¹		944	100	1 tee	1,765	4,418	10		18	51,245
40,078	463,311	42,472		1,120	7,890	30,901	61,396	***	186	1,037,580
182,118	657,700	1,831,349	325	199,162	6,708	31,700		43	2,773	8,353,450
169,470	293,323	120	bes.	1,306	18,149	1,087	>* 1	,	9,830	529, 47 4
1,860	20,073	***		4**	806	91	•••	•••	200	29,110
. 42,313	214,447	78,156	,	14	313	1,453	1,051	•••	30	426,408
20	85	••• *	414	***	5,012	7,274	2,609		•••	, 84,73
***	375	***		•••	1,012	238,071	. 95	44*	199	3,584,75
6	412	•••	•••	•••	1,874	16,208		343		21,73
5,8GG	6,699				2	2	,		4	19,44
456	1,873	•••	***			`***	4**	1,11	•	, 37,84
144	3,310	58,226	1	1,193		, •••	•••	414	***	08,83
1,911	7,703	4,095	,		8,017	61,141	112	•••		2,168,44
2,419	6,082	•••		11	85,432	446,095	637	1,010	3,561	2,501,60
										, 11
895,498	1,710,456	1,518,008	326	203,106	136,934	815,151	66,130	1,053	16,793	14,173,80
889,581	1,087,046	1,468,673	' 826	203,418	140,084	843,760	70,536	9,762	17,158	18,974,01
403,607	1,607,432	1,429,949	280	188,114	135,863	817,560	71,250	' 8,606	18,582	13,050 <mark>,</mark> 80
388,352	1,739,884	1,451,429	286	, 190,314	139,606	828,484	69,778	5,178	18,090	13,561,54
٠٠.	1 000 01.	,	256	.;	10	4,503	118,427	ona f	10,028	18,614,216
, .886,695	1,687,641	1,400,607	200	, 189,19 3	1,01	sjuva *	130,937	1,600	10,020	10/014/27

STATEMENT XII. Progress on reproduction and afforestation.

			Pzor	rince.								nera cl	020 AT	Area on which rege- nemtion was completed during the	Planta not un work plans a during	ing d	Tpenditures luring the year.
												;	year. 2	year.	Jea 4	r.	5
												-			-		
Bengal •	•	•	•	•			•	•	•	•	•		Acres. 262	Aeros. 2,227	Act	res. 21	Re. 79,877
United Provinces .		•	•	•	•		•		•	•			2,24,802	13,090		.	1,45,767
£mjab • •	•	•	•	•	•	•	•	•		•	•		13,482	6,87	5	653	2,58,199
Burma		•	•	•	•	•	•		•	•	•		1,538	4,46	6	•	1,67,886
Federated Shan St	ates •		•	•	•	•	•	•	•	•			302	36	8	•	44,195
Bihar and Orlesa	•	•	•	•	•	•	•	•	•	•	•		22,684	14,9	76	296	15,834
Assam •		•	•	•	•	•	•	•	•	•			1,14	6		842	. 17,970
Central Provinces	. %	•	•	•	:	•	•	•	•	•			13,41	1 6	37	1,353	4,791
Coorg .	• • •	•	•		•	•		•	•	•			62	7	91	347	18,961
North-West Fron	tier Prov	ince	•		•	•	•		•	•	•		6,05	51	220	4	4,778
Ajmer .		•	•	•	•		•	ર	•	•	,		17,73	1,	584	•••	525
Baluchistan			•		•	•	. •	•		•	•			70		1	
Andamans .		•	•	•	,			. •	,		•		,,,			Ca	9,84
Nadres .	•	٠. ،				.1	•	•		•			, :	175 1	,059	1,02	57,57
Bombay .	Ę	•		• ,	•	•	•	•	•	•	•		69,	572 38	,950	11,70	9 75,26
,															-		
•				-		Tota	n 192	8-2				•	371,	1 4	1	16,32	8,91,45
•							192							1 .	7,340	18,0	33 8,24,111

f Included in Col. 2.

STATEMENT XIII.

Outturn of forest produce.

-				4						Āve	rago On	tturn	per Squ	aro M	íle.	
Province.	Roservoo	l Furcsie.	Protested	Foreste.	Unclassed	Forests.	Tı	UTAL,	Reser	red ts.	Prote Fore	eted ets.	Unela Fore		Тот	AL.
. Liamer.	Timber and fuel.	Minor produce.	Timber and fuol,	Minor produce,	Timber and fuel.	Minor produce.	Timber end fuof,	Miror produce,	Timber and fuol.	Minur pro- dues	Timber and inel.	Minor pre- duce	Timber and fuel,	Minor pro- duce.	Timber and fuel.	Minor pro- duce.
1	2	8	4	£	a	7	8	9	10	11	13	13	, 14	15	19	17
	C, ft.	Rs.	C. tt.	Re.	O. 1t.	Re.	G. ft.	Re.	O. tt.	Ra.	G, ft.	Ra.	C, ft,	Re.	G.ft.	Rs,
Bengal	80,089,000	(n) 4,51,730	744,000	19,175	1,410,000	98,109	38,143,000	5,84,014	4,701	70	1,185	25	416	18	3,14/3	50
United Provinces	34,805,000	(¿) 14,70,500	21,000	723	000,19	8,770	34,927,000	15,85,008	6,746	286	6,269	180	2,674	09	9,714	235
Punjab	(8) 19,257,000	(c) 14,26,490	15,936,000	13,03,303	6,302,000	C3,050	82,501,000	(d) 27,63,628	a,cos	931	4,004	403	10,031	197	6,993	521
Burma	50,470,000	4,76,885	•••	***	71,701,000	4,03,201	122,177,000	0,20,056	1,720	16	•••		764	δ	903	,
Federated Shan Slates,	5,043,000	45,776	119	•••	2,071,100	0,69,205	6,714,100	7,15,033	992	15	149		124	31	293	29
Bihar and Orises,	4,250,000	1,00,291	5,625,000	1,57,672	•••	*1*	0,831,000	2,69,193	2,365	67	4,425	124	<i></i>		8,215	84
Aesan	7,711,000	9,76,030	•••	190	11,864,000	6,02,219	19,125,000	9,70,260	1,265	45			796	48	937	47
Central Provinces	40,87d,000	(8) 32,12,350	***	***		***	46,878,000	82,62,350	2,396	165	***	**	,	•••	2,356	165
Coorg	877,474	\$8,633	149,958	100	411	***	826,432	80,029	797	75	***				1,014	75
North-West Fran- tier Province.	(/) 2,045,000	1,14,355	414	***		•••	2,049,000	1,14,955	12,032	407	l4e	.,	***	169	12,032	407
Ajmer'	405,345	60,508	4/1	#1	58 7	***	405,346	50,860	2,874	360		"	١		2,874	350 ,
Daluciánten .	127,250	44,323	-:1	•••	1 fo,93B	65	289,203	44,368	408	141		ы	298	1	313	88
Andamans	168,000	2,000	c ***	***	2,816,000	6,563	3,003,000	0,639	3,615	67	•	*	1,917	3	1,371	å
Madras	18,17C,000	0,65,561	484	111	4,165,000	13,31,679	22,331,000	10,83,031	100	31	***	,,,	12,122	3,662	1,15	100
Bombay	(3) 23,591,000	10,97.858	32,375,000	0,073	270,000	144	50,913,900	19,90,431	1,700	145	27,000	7	*		3,760	134
TOTAL 1928-29 .	235,028,009	1,04,07,136	64,847,058	14,77,813	101,032,058	\$2,03,638	280,928,086	1,51,78,810	2,190	07	8,695	233	730	23	1,50	99
, 1927-28 ,	247,038,835	1,03,91,058	25,000,167	14,71,021	97,080,256	25,49,751	37 0, 17 3,7 07	1,43,15,303	2,315	97	8,277	102	790	18	1,460	57
, 1026-27 ,	248,248,014	90,01,583	21,430,407	25,42,018	02,300,695	29,81,252	502,038,000	1,45,67,003	2,359	80	9,101	202	GGD	21	1,49g	Б
, 1925-26 ,	241, 011,023	23,"5,275	25,003,135	23,03,410	91,730,803	37,53, 970	801,701,051	1,43,00,001	2,291	88	3,040	573	693	10	1,435	rs
ni 1924-25 ,	237,028,004	1,07,01,203	26,633,610	12,40,907	91,129,147	17,65,495	255,253,800	1,87,18,501	2,200	108	3,205	181	773	15	1,110	GQ

a) Includes léasod lands,

(h) Sandal wood—

Rs. 61 P. on secount of fruit oulture,

^{1,51,757} profit on reein for 192

^(#) Reserved and unreserved lands:

^{636 17 274} 28 10 18 white wood biflets, etc. 135 o.ft. Scanted wood.

¹³⁵ O.L. Bernied Wood,
6 crate rejected pieces,
-1,300 trees,
128 rejected topis.

STATEMENT XIV.

Forest produce removed by different agencies.

Part I.—Timber and Fuel.

A		Timber.			,			Fuel.		
Protes.	Dy Govern- ment.	By purchasers.	By free grantees.	Py right holders.	Total.	By Govern- ment.	By perchasers.	By free granters.	By right holders,	Term
1	2	3	4	8	6	7	В	9	10	'n
	C ft.	C, ft.	C. ft.	C. ft.	C. II.	C. ft.	C, ft.	C. It.	C. n.	C. (i,
Etuzzi	£31,000	17,950,000	19,000	<i></i>	18,506,000	1,015,600	13,123,000	455,000	1	1,627,700
Trited Provinces	214,000	8,758,000	65,000	£83,600	9,422,000	342,000	11,501,000	1,015,000	12,940,000	17,09,00
Teriso	1,126,000	2,043,000	68,000	1,274,000	4,874,000	1,695,000	2,769,000	15,000	23,603,010	27,657,574
Berns	3,743,700	87,523,070	235,010	2,554,000	96,139,000	600,000	21,414,000	සෙ,ඟා	637,000	25,783,0°0
Fed-rated Shan States	4,200	4,533,400	12,400	222,490	4,791,400	71,000	292,000	,	p2 700	933,700
Liharand Office	143,000	2,068,000	82,000	428,000	2,772,000	163,000	2,337,000	59,000	4,344,000	030,435,1
A2.m	. 339,00	10,169,000	637,000	•••	11,054,000	000,000	3,563,000	3,667,000	7,000	5/41,000
Central Providers	6,507,00	4,521,000	212,000	1,000	11,221,000	13,241,000	20,109,000	2,128,000	132,000	matra,se
Guots · · · · · ·	135,31	6 120,050			255,57	101,100	160,019			zo,ne
Kerth-West Frantier Frovince	E51,00	000,000	5,000	4,000	913,00	0 342,00	143,000	1,020,000	\$16,000	2,035,000
Amer		4,677		82	4,96	9 191,65	205,778		,,,	467,43 6
Fa ¹ uphistau	- 1,0	7,94 1	1,535		4,51	20,33	243,120	240	,,,	202,677
krāsmant	2,014,0	6,00	42,00	207,000	2,459,0	85,00	30,000	334,000	50,000	E35,060
Maires ,	1,720,0	2,411,00	0 \$52,00	0 15,00	4,784,00	1,615,00	00,180,81	70,010		17,600,008
Borbsy	1,625,	4,650,00	50,00	0 300,00	6,625,00	3,633,00	37,874,790	147,003	8,270,000	47,517,000
Tor <u>11 1978-</u> CO	21,195,	520 144,556,2	o1 1'402't;	59 c ,105,45	2 173,760,1	95 23,290,0	£9 132,378,£5	5 C,405,214	s1,035,700	216,101,89
, 1927-29 	17,562	(23) Jv2,7er,1	117 2,265,1	40 3,5*9,6	17 127,077,	590 27,E20,E	41 144,527,61	10,112,29	85,205,660	245,000,17
, 105-27	. 1643	,735 102,£20,	its 1'0.3'E	415 8,892,0	07 125,534,0	19,174,	i73 1£7,304,67	re 1^,003,872	12,005,600	227,471,27
i. 1925.25		-		30 4,212,3	73 672,116 ,	233 21,662,5	70 157,490,5	20 8,882,16	8 61,751,EX	235,327,1
, 3021 25	19,21	1,763 B1,752,	nç0 2172,	31 7,376,5	38 113,517,	507 1G,T92,	147 151,527,77	52,589,10	51,977,471	230,388

STATEMENT XIV .- contd.

Forest produce removed by different agencies—contd.

Part II.—Value of minor forest produce.

7	,	`	Bamboo).			Grazing	and Todde	r Grass,			Other Mi	nor produce	٠.	
Province.	By Govern- ment.	By purcha- sere.	By free grantees,	By right holders,	Total,	Bj Govern- ment.	By purcha- sers,	By free grantees,	By right holders,	Tetal.	By Govern- ment,	lly purchs- sers.	By froe grantees.	By right holders.	Total.
1	3	8	4	6	d	7	8	9	10	11	12	18	11	15	16
	Rs.	Rs.	Rs.	Re.	Re.	Rs.	Re,	Rs,	Rs.	R9.	Re.	Re,	Re.	Bs.	Re.
Bengal	651	1,50,913	846	416	1,52,140	•••	30,008	34,978		70,714	41,203	2,67,470	2,061		3,10,930
United Provinces .	2,583	1,63,190	191	2,303	1,94,266	1,821	1,79,910	11,133	2,78,977	1,74,674	3,95,070	4,73,700	28,983	£2,197	8,14,669
Punjab , + .	83,192	, 11	23	580	33,800	78	1,46,091	58,021	20,12,550	22,17,146	4,61,037	22,034	17	41,039	5,32,870
Burma	657	2,77,519	8	10,351	2,68,939	, \$0	18,507	51,200	1,51,633	2,21,960	19,915	3,63,198	9	55,303	4,28,407
Federated Shan States.	***	9,197	,	6,030	13,230	474	3,072	5, 400	8,505	19,037	. 63	0,87,203		16,422	8,83,766
Bihar and Orissa .	7,701	85,238	1,508	5,110	49,502	411	12,483	1,910	1,12,716	1,26,446	20,119	57,364	210	4,433	82,158
Assam	243	83,634	16,999		1,01,700	***	42,398	19,245	110	91,759	8,151	9,23,823	1,80,261		8,00,783
Central Provinces .	6,840	4,19,223	8,963	4,628	4,28,560	2,638	16,01,910	1,59,870	3,76,383	22,33,787	2,00,159	8,30,078	30,040	14,020	5,00,012
Coorg	45	1,162		488	2,307	*;	1,070	1,387	64	2,527	144	31,204	1	***	31,295
North-West Frontier Province.	***					E4*	8,143	90	5,657	18,902	90,781	830		100	1,00,423
Ajmer	,	710			710	1,096	10,746	1,451	23,537	46,730	414	8,012	lat	•	3,126
Balushistan	***					***	1,523	i	41,479	43,904	83	1,637	ž0	***	1,001
Andamana ; ,	438	41	1,594	197	3,010	•••					641	1,090	4,509	819	7,610
Medras	10,259	8,67,141	6,313	520	4,91,542	\$33	6,57,439	18,753	7,187	0,78,712	11,020	6,66,956	7,140	660	9,06,977
Bombsy	, 1,718	1,71,317	935	40,813	3,23,933		7,63,507	15,500	6,93,879	11,91,248	15,248	2,14,539	9,179	42,291	2,78,265 Q
		<u>'</u>	<u> </u>					·					1	\$	·
Total 1928-29		17,10,291	37132	81,712	18,91,861	0,890	80,07,577	3,77,063	87,13,754	77,01,29J	11,38,019	30,43,251	2,63,648	2,81,5 4 0	F5,82,356
, 1027-28 · .	55,200	16,64,114	, 40,90%	80,751	18,80,965	9,087	83,46,621	13,60,270	89,65,841 4	70,82,831	13,60,140	30,10,953	2,51,018	1,00,044	51,03,16\$
, 1920-27 ì .		16,98,890	39,211	, , 07,090	18,88,397	27,038	85,69,027	43,67,110	32,39,500	71,01,771	11,69,171	38,05,027	2,60,533	7,02,404	65,07 , 735
,, 1925-25	82,629	10,13,762	25,327	95,816	, 18,50,538	10,517	36,93,287	9,78,283	32,82,033 .	73,53,120	10,66,645	30,07,060	2,37,013	2,00,030	51,00,383
* 35 1924-25	1,00,726	15,07,220	83,419	59,220	10,00,639	14,145	80,52,535	\$,87,300	32,00,637		10,85,007	35,44,651°	2,39,471	2,01,145	47,07,014
ĭ,, \		1								2				·	# ½ ·

STATEMENT XV.

Exports of forest produce.

		Article	s of f	orest	prod	nce.						Quantity in to (in the case and other onbic to	ons of 20 cwt. se of teak timbers, ms).	Valuation at port of shipment in 1928-29.		
												Average of 5 years 1923-24 to 1927-28.	In 1928-29.	Total.	Per ton.	
			1									2	3	4	5	
														Rs.	Rs.	
Caontohouo, raw		•	•	•	•	•	•	•	•	•	•	9,309	11,529	1,99,85,435	1,733	
		But	ton	•	,	•	•	•	•	•	•	988	1,236	34,40,508	2,784	
Lac		She	n				•	•	•	•	•	19,702	26,537	6,81,61,168	2,569	
		LStic	ok, se	ed an	d oth	er kir	ds		•	•	•	5,192	9,397	1,48,24,118	1,576	
Juich and gambier			•		•	•	•	•		•	•	2,464	2,359	9,28,048	39	
Myrabolams .			•	•	•			٠	•	•		70,118	62,534	80,44,314	13)	
Cardamuros .												334	381	20,50,819	5,383	
Sandal .								•				880	960	17,28,121	1,800	
Teak • •				•				•		•		51,249	52,591	1,46,70,056	279	
Other kinds of wood :	and tim	iber#	•	•	•	•	•	•	•	•			-	10 ,91,059 1		
							:	IATOT				•	•••	13,49,23,946	***	
								"	1927		•	•••	•••	12,73,46,767	*** 1	
								11	1926		•	***		10,63,30,003	'	
								27	1925		٠	•		12,84,97,718	100	
								**	192	1-25	•	•••	•••	11,43,32,316	414	

^{*} Quantity not recorded. † Includes took keys.

STATEMENT XV (a).

.	1	Year (calendar).							Imports of timi India, 19	ber into British 925-1929.	Imports of sleep for railways into 1925-1	British India,
	-			-					Cubic tons.	Rs.	Tons.	Rs,
1925	•		•	•	•	•	•	•	‡31,156	28,70,856	14,238	14,91,246
1926	•		•	•	•	•		,	. 128,104	‡27,49,637	25,734	31,17,949
1927	•		•	•	•		•	•	‡26,002	133,44,387	14,704	16,60,677
1928	•		•		,	•	•	٠	. ‡23,860	‡28,90,525	1,950	2,27,845
1929						•	٠.		‡26, 544	‡31,83,9 <u>92</u>	8	1,232

[‡] Regresent figures for deal and pine wood, jarrel wood and took wood only from, April 1925,

STATEMENT XVI.

Estimated value of forest produce given away free or at reduced rates.

<u> </u>			,	7	·	
Province.	Timber.	Fuol.	Bamboos.	Gress and grazing.	Other minor produce.	Total.
.1 ,	2	8	. 4	5	. 6	7
<u> </u>	Re.	Rs.	Rs.	Re.	Rs.	Es.
Bengal - · · · · ·	3,283	G4,705	40,280	40,695	2,051	1,51,054
United Provinces	1,23,000	1,24,000	8,000	***	54,000	8,10,000
Punjab	70,105	7,53,980	***	***	21,15,935	29,40,026
Burms	47,462	777	10	51,200	4	99,453
Foderated Shan States	. 2,041	111	Pr	6,499		8,540
Bihar and Oribsa	12,787	872	1,506	2,924	1,511	1 0,550
Aesam	87,978	\$1,906	18,989	19,363	1,60,264	[3,07,000
Central Provinces	28,496	55,702	12,288	13,48,236	88,692	14,83,554
Coorg	. , ***	114	41.	4,678	,	4,673
North-West Frontier Province	2,285	87,710		5,683	t m·	45,876
Ajmer	. 12	***	4	24,988		25,000
Baluohistau ,	. 500	5		30		£35
Andamans	54,697	3,860	1,520		4,909	65,011 ,
Madras	85,965	8,172	3,088	17,256	7,585	1,22,068
Bombay '	96,241	1,70,342	50,702	7,09,249	48,726	10,75,260
t .		•	,		,	£
,					,	74 N.
TOTAL, 1928-29	5,05,802	12,71,552	1,86,383	22,30,938	21,53,827	66,58,502
,, 1927-28	6,02,630	15,10,291	1,45,106	22,67,418	24,83,483	€9,58,96 4
. , 1926-27 ,	5,91,572	14,36,747	1,42,861	21,52,169	21,84,531	67,57,880
,, 1925-26	5,47,210	18,20, 10 8	1,47,125	~ 24,93,462	n/ 90 1ro	;
1924-25	4,68,001	18,18,840		44,72,409	24,22,153	69,30,058
	ų		,	49,12,409	3,79,190	67,31,240

STATEMENT XVII.

Details of revenue and expenditure for the forest year 1928-29. (Exolading Barma and Fodorated Shan States.)

,	•	Rs.	Percentage of exch from to total.
	(a) Wood	2,88,51,843	72.7
-	(b) Miner forest produce	38,09,264	96
Gross Roceipts	(c) Forest stamps and Commutation fees for forest produce	93,311	62
Store addressor seeds	(d) Grazing	85,49,905	88
	(c) Revenue from forests not managed by Government	1,90,672	0.5
. ((f) Miscellaneous	82,00,505	8.03
	Total Revenue .	8,97,09,080	
	(i) Superior Staff (ii) Subordivate Staff (including Rangers, Foresters and Guards). (iii) Office Establishments (including Contingencies).	1,37,92,150	51.8
	(1) Extraction	70,41,216	26.2
	(2) Roads and Buildings	13,84,444	52
	(3) Fire protection	2,73,842	1.0
į	(4) Cultural operations	7,53,800	29
\$	A. (5) Live-stock, stores and plant	5,91,929	22
1	Recurring (6) Working-Plans	29,633	01
j	(7) Rout for leased forests	3,41,780	1'3
1	(8) Miscellancous	4,77,099	1.8
[(c) Expanditute on realization of revenue from forests not	25,330	011
	managed by Government. (d) Forest Science and Education (including all "A" and "B" charges of Imperial Forest College and Research Institute).	25,711	0.0
Expenditure	. Total .	2,47,41,678	-
j	(e) Forest Settlement	18,567	0.0
J	(O Forest Survey	20,961	00
-	Extraordinary . (g) Forest Demarcation	1,03,211	04
	(h) Gain or loss by Exchange on English transactions, interest on capital outlay, etc.	D,2 G, 1 40	12
a w	(s) Share of Capital charges transforred to E-A	11,25,641	53
	Total	19,01,820	_
	GRAND TOTAL OF EXPENDITURE	2,66,36,198	
	Net Revenue . (Excluding Burma and Podorated Shau States)	1,80,72,502	

^{*} Expenditure urder this head in provinces has been included in (a) Administration.

STATEMENT XVII(a). Details of revenue and expenditure for the forest year 1928-29. (Burma and Fodorated Shan States only.)

T		Bs.	Percentage of each item to total.
		1,44,00,435	79-5
	(a) Wood		5-9
	(b) Minor forest produce	10,70,635	
osa Receipts .	(c) Grazing	22,579	01
	(d) Revenue from forests not managed by Government	2,41,589	1:8
•	(e) Miscellaneous	23,64,885	18.0
	' Total Revenue .	1,61,00,143	19>
	(i) Superior Staff		
	(ii) Subordinate Staff (including Rangers, Foresters and Guards).	47,91,787	56'8
	(iii) Office Establishments (including Contingencies).		
	(1) Extraction	4,40,440	5.2
,	(2) Roads and Buildings	8,33,376	8.9
	(3) Fire protection	82,228	0.3
	(4) Live-stock, stores and plant	2,86,901	2.8
	Recurring . (b) Working . (5) Working Plans, revision and mainten-	23,990	0.2
	(6) Maintenance of boundaries	86,545	0.4
	(7) Rogeneration and improvement .	1,81,020	27
	(8) Silvienitural Research	11,451	0.1
	(9) Utilisation Research	***	ap. 1
	(10) Other Works	1,03,647	12
	(11) Missellaneons	1,14,400	1:3
***	Total .	63,05,785	
spenditure .		*	
			-
	(c) Forest Survey	** ***	· · ·
	B (d) Gain or loss by Exchange on English transactions, interest on capital ontlay, etc.	6,44,009	, 7∙6
	(e) Share of capital charges transferred to 8-A	14,74,977	17.5
	Total	21,18,988	, m
	GRAND TOTAL OF EXPENDITURE	84,24,771	16 \ 10
	Net Revenue	96,75,872	
		, ,	
í	(Burma and Federated Shan States only.)	· ·	, ,

STATE
Summary of revenue and expenditure of the

Budgot Heads.	Imperial.	Bongal.	Un	ited mees.	Panj	ab.	Barrell (inclusion for the state of the stat	dos ited tates ack-	Biha and Ori (inclu Angu Dlyssic	dos dos	Assam.	
	Ω	3		4.		5			7		8,	
1	. Rs.	Rs.	-	Rs.	1	ßs,	1	ge.	R	8.	Rs.	
REVENUE.	, Jue.										0.49.40	
I.—Timber and other produce removed from the forests by Government agency.	•••	5,98,1		9,77,151		,11,037		,50,472 ,00,935		39,500 38,407	8,41,48 25,09,33	
I.—Timber and other produce removed from the forests by consumers or purchasers.	4**	23,66,	077	51,98,200	9	,57,407		42,263		658	21,17	2
I Drift and waif wood and confiscated forest	•••	19,	689	3,117		85,576		,41,589			85,0	12
produce. V—Revenue from forcets not managed by	***			31,000		3,030		41,000	. "			
Government.	nát	1,33,	,417	27,615		4,70,975	2	3,64,685		18,386	3,07,6	69
Y.—Migonimeeds Total Revenue		81,18	,837	01,60,801	3	5,28,025	1,8	1,00,143	10,	,97,161	37,67,	878
EXPENDITURE.		 										1
A CONSELVANCE AND WORKS.			6,430	3,37,377	١,	9,93 838		1,73,322		13,508	7,10,	353
I.—Timber and other produce removed from the forests by Government Agency.	1	1	7,853	2,32,579		1,739	,	1,06,838		29,960	35,	917
II.—Timber and other produce removed from the forests by consumers or parchasers.	***		3,295	505	1	27,710	6	70,760				994
III.—Drift and waif wood and confiscated forces	•••		3,210	21,016		ni		•••		8	534	_ \
IV.—Povenne from forcets not managed by Government.	' "	-		6,333		1,05,39	7)*1		26,729	1,1	9,629
V.—Rent of leased forests and payments to shareholders in forests managed by Gov erament.		•		•		15,35		2,86,90	1	2,381	2	3,920
VI.—Live-stock, stores, tools and plant	·	1	21,006	02,07	1	67,97		3,83,37	6	70,470	2,1	4,8:9
VIL-Communications and buildings	-	i	18,913	3,33,50	1	91,9		3,88,8	S1 .	42,912	, ;	28,815
VIII.—Domercation, improvements and extension of forests.	···	{	15,016	3,55,31 17,41	1	3,1		1,14,5	00	15,001		15,035
ix Miscollancous	`\	_	,62,152	14,02,2	_ - 25	18,08,0	:03	15,13,9	98	2,00,96	11	51,46
Total A Conservancy and Works		16 7			-		_	4;,91,	,87	4,91,81	5 7	,59,81
B.—ESTABLISHMENTS. Total B.—Establishments (includes salari travelling and other allowances a centingencies).	es, 58,	H2 1	8,15,605	16,72,3	137	11,19,5	261			23,1	83	21,3
GTotal gain or loss by exchange on Eng	ieh By,		183	67,5	991	63,	443	6,44,				1,69,7
D.—Totalebare of Capital charges transfor to 8-A (1.e., Capital charges met f.	1		1,04,251	1,01,	143		9	11,73,	977	1,31,4		7,3
Revenue). B.—Totil Capital Outlay under 52-A (s.e., trunsferred to 8-A).	1		***	`	-		3,850	64,24		8,50,3	53 2	 :1,22,3
GRAND TOTAL OF-EXPENDITURE (Excluding exponditure under II-)		,361	16,82,191	32,43	,716	21,93				2,16,		16,45,
Surplus (Excluding expanditure mider E.)		,	14,36,166	29,30	,675	10,3	1,706	96 7		ر20 وغ		
Dreight	. 5	9,361						•••			_	
Proportion of surplus to gross revenue		 -	-40	-	47		29		58	;; . ;; -	92	, -
Not revenoe per square mile of forest area control of Forest Department.	under		130	;	565		193		60	* 4 ,	P0	

MENT XVIII.

Forest Department in India for the financial year 1928-29.

'Contral Provinces.	, Coorg.	North-West Frontier Province.	Ajmor.	Baluojiistan.	Andamans.	Forest Collage and Research Institute.	Madras.	Bombay.	Total.
9 1	10	11	12	13	14 '	, 12	16	17	18
	Rs.	Rs.	, Re	' Rs.	Re.	Re.	Rs.	Rs.	Re
Rs.		7,81,037	87,410	6,001	14,88,436		17,97,674	26,78,650	1,41,81.085
16,45,717	4,27,841 72,955	17,969	'41,E32	10,897	2,707		82,73,879	42,10,633	8,78,60,535
1,390	, ,	2,562	, ,	101	•••	1 ,	10,949	2,897	4,93,472
84,687	, , ,	8,241	٠	4,712	444	***	***	25,981	4,32,26 3
8,53,469	25,340	24,568	, 6,682	2,815	9,478	1,06,001	10,72,771	, 4,15,874	53,41,79
54,46,316	5,25,636	8,29,877	, 87,924	23,425	15,00,706	1,06,001	61,54,778	78,43,035	5,78,09,14
							٨		
7	, 4S,007	5,88,864	, 21,673	3,015	8,11,506	,	5,14,015	12,84,429	61,69,03
5,43,662 2,21,830		a ₁ a ₂ a ₁ a ₂ a ₃	605		660	•••	1,76,706	54,201	11 88,08
79	•••,	669	244				351	, 231	" [{] ' 1,04,56
***	, ,,	ļ , ,	** ,	284	•••	. ,	414 j	, 1992	25,83
12,524		24,130	****	414	*** ,	201	524	46,514	8,41,78
29,034	19,520		, ' 845	100	2,18,150	16,682	. 1,21,186	27,817	8,28,69
1,86,382	14,126		13,866	931	14,425	5,444	1,52,587	- 1,64,279	17,17,82
2,66,773	90,678		2,520	1,478	- 38,650	***	98,489	1,24,099	15,94,10
55,859	4,211	(a)—508	500	645	11,777	1,89,880	14,070	1,81,488	5,91,48
13,15,643	1,16,787	-	30,718	6,456	10,95,148	2,11,956	10,78,859	17,78,559	, 1,25,81,04
28,83,016	1,35,857	1,52,189	81,845	80,422	1,65,658	6,87,084	, 28,97,620	. (b) 24,43,336	1,86,09,15
L ₄₁ ets	-46	***	, HO	f f	(m	3 646	1,05,544	42,657	9,70,44
	12,993	60,146	4,792	, ,	68,120	42,607	4,77,481	2,32,897	29,00,61
						. , ,	,		; (4) 77 mm OF
2,95,661 86,49,259	-	`8,34,035	76,855	36,878	13,28,927	9,41,787	45,50,503	44,92,445	. (c) 7,71,85 8,50,61,26
17,97,057	1.	-	11,569		1,71,779	- 	15,95,270	28,50,500	2,86,61,98
1 1	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5,658		13,458	-	8,85,786	911	. (,	9,14,)(
	3 . 3 4			-	-	, , ,	26	38	
ž , , , , , , , , , , , , , , , , , , ,			-, -, -, -, -, -, -, -, -, -, -, -, -, -	 	11	 		,	<u> </u>
3	1 1 1 1 50%	·	8	, , ,	78	,	82	191	.,.

y) York advances after deducting expenditure under LX miscellaneous.
 i) Includes Rs 1,34,616 on account of expenditure in England by the High Commissioner
 i) Not included in Grand Total of rexponditure.

Revenue of the Forest Department throughout India for the 80 financial years

(I) REVE

			والمناب والمناب							<u> </u>			- 1
Province.	Average of 1869-70 to 1873-74.	Average of 1874-75 to 1878-79,	Average of 1879-80 to 1883-84.	Average of 1881-65 to 1888-80.	Average of 1889-90 to 1893-94.	Average of 1894-05 to 1898-99	1899-1900.	1900-01.	1901-62.	i902-03.	1903-04,	1904-05,	
	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs.	Rt.	Rs.	ٔ ر
Imperial	2,175	\$1,717	25,420	10,866	5,147	0,688	6,090	2,46	3,484	3,650	7,455	3,768	·
Bengal*	1,64,36\$	2,89,772	d,0G,578	6,31,384	7,66,431	10,49,364	11,35,910	12,33,339	12,92,237	12,56,247	10,65,523	11,67,472	
United Provinces	12,59,979	12,21,650	11,34,615	14,63,525	18,80,100	15,51,521	16,14,740	15,65,468	17,15,508	20,25,321	20,60,416	23,97,818	
Panjab · •	6,87,423	7,05,558	7,37,338	9,11,950	9,00,417	11,30,510	14,00,770	18,50,842	14,47,538	15,80,408	17,17,597	18,71,443	
Burma	8,91,298	14,29,175	19,88,356	25,01,918	49,78,654	66,15,549	78,12,050	80,54,444	58,73,938	67,39,053	62,68,835	89,59,756	•
Bihar and Orissa .			•••		•••	114	4			*	,		
Assamt		1,01,098	1,91,687	2,32,055	3,82,750	4,15,912	5,68,100	5,49,521	5,12,963	5,80,200	6,75,732	8,15,677	•
Central Provinces and Berar	7,11,879	9,79,036	12,81,992	14,11,163	16,98,505	13,75,958	12,97,490	12,65,614	15,79,116	16,84,428	19,98,032	20,13,459	
Coorg	92,491	78,887	1,03,170	1,13,021	1,58,186	1,63,450	1,62,416	1,97,596	1,70,212	1,96,730	2,24,631	1,93,087	
North-West Frontier Province-	•••		•••		***	•••	•	•••	13,012	1,01,123	1,01,833	90,991	٠.
Ajmer	G5	1,152	4,475	11,859	15,233	14,10		10,646	6,865	9,786	13,654	17,297	١,
Bainchistan .	***	•••	8,556	10,973	17,098	15,930		16,958	14,712	19,830	18,363	22,555	-
Andamans . ,	5,467	4,485	31,840	57,633	2,79,028	2,51,433		2,77,686	2,68,903	8,26,035	4,82,831	6,20,798	
Imperial Forest College and Re- search Institute.	•••		***	397	1,636	8,010	0 3,210	3,697	3,515	3,252	3,038	9,557	
Ferest Surveys (Imperial)		17	139	206	GES	300	420	327	473	3,031	491		
Madras , , .	6,03,243	5,88,389	8,05,020	19,00,451	17,14,828	31,10,93	8 23,02,290	23,40,170	25,43,430	20,18,819	26,57,727	28,29,216	
Bombay	11,77,673	12,23,561	16,93,818	80,11,314	83,54,893	30,46,24	1 24,15,200	29,61,629	23,19,720	23,29,156	27,51,539	30,20,558	
. Grand Total .	56,80,061	té so 907	SS 17 019	1 16 65 149	1 50 40 014	1 27 35 2	56 1,90,00,610	1.97.70.493	1.28.23.713	1.94.71.540	2.22.16.717	1.40.29.950	
	i anionion	00,00,001	100,21,410	11,10,03,133	1,00,10,019	1,17,20,11		,	1-1101-0112-		1		
•					}								١.
Pro	vinco.		1	017-18.	1918-1	5.	1919-20,	1920	-21.	1921-22.	,	222-23.	
· · · · · · · · · · · · · · · · · · ·													١
•				Re.	1	Rs.	Re.	ij	5.	Ra.		Rs.	
''Imperial				51,720	2	7,458	\$1,527	1 '	97,122	27,80	3	26,553	ì
, Bengal	۰ , ۵			13,78,000	10,4	1,101	20,51,237	21,	81,763	16,95,9 5	3	23,11,226	
United Provinces	• • •		.[61 16,697	66,3	7,160	71,71,051	87,	79,781	86,46,67	7	83,72,803	
Paujab		• •		21,17,770	21,5	1,178	38,45,878	38,	05,058	49,91,17	1 '	31,44,413	ľ
Rurms			•	1,23,61,49§	1,25,2	6,852	1,64,35,262		75,060	2,21,16,78	1	1,89 48,952	
Binar and Orisea	• •		•	7,53,625	9,4	1 763	8,17,458	1	10,602	9,00,87	1	8,81,904	
' Assam	• • •	• • •	•	13,09,953		2,718	14,51,500	1	31,944	12,97,02	1	17,13,853	1
Central Provinces and	Berar	• • •	•	34,66,493	1	8,422	45,43,723	i	91,528	41,33,69	1 .	47,00,979	
Coorg	n	٠.	• [4.58,673	1	7,873	9,48,028	1 .	27,851	7,88,73	1	9,42,653	1
North-West Frontier Ajmer	LIOVINGE	٠	•	3,37,711	•	1,822	4,03,541		19,779	5,74,85		7,27,659 43,978	
Balnchistan	• • •	• • •	•	27,733	ľ	7,260	34,914	,	48,112	, 40,81		14,039	
Andamana	• • •		•	17,833	ŧ.	5,165	17,937	1	22,511	17,22			
Imperiol Forest College	· ·	, , ,	- 1	7,93,656	ľ	4,388	8,00,795		24,374	5,50,09	i.	5,88,027	1
Forest Surveys (Impe		eston instit	ute ,	108,3	, ,	9,083	\$,809	1 '	12,648	24,11	.	1,81,763	
i. Madras				#* E0 160			co 44 7 40		- 1	48,69,17	,,	52,72,956	
Bombay	•		•	54,58,489 63,12,022	1	1,450	62,34,149 84,44,438	•	81,216 og 805	45,00,17	,	70,37,884	
14 - 5	•			40,16,044	- 1,04,9	1,001	04,43,400	. 03	98,685	~	~ ·	, 0,-1,004	
77. F	•	¥ 5					<u>, , , , , , , , , , , , , , , , , , , </u>		<u>!</u> _		4		١,
W. T. L.	GR	AND TOTAL		4,09,60,257	4,68,1	B.231	5,86,75,789	K 41	48,495	5,83,18,07	n '	5,52,14,073	Ī
Egyde C was	•			· · · · · · · · · · · · · · · · · · ·	-1001		" -lantingene	7,21			. .		1:

Fluoludes agures up to 1919-11, for districts subsequently transferred to Milar; fundades agures up to 1910-11, for Esstern Bongal districts subsequently transfer (a) transfer Essterial State States.

MENT XIX.

from 1899-1900 to 1928-29 and the average of 6 quinquennial periods from 1869-70 to 1898-99.

	* .	•				•	, , , , ,		<u> </u>	<u> </u>	7	Service beauty	
1905-06	1906-	-67.	1007-08.	1908-09.	1909 10,	1910-11.	1011-18.	1912-13.	1913-14 .	1914-15.	1915-16.	1916-17.	Provinco:
			Re.	Re.	Rs.	Rs	Rs.	Bs.	Rs.	Rs.	Rs.	Rs.	ţ Ţ
Rs.		Rs.	7,066	8,189	10,632	8,652	10,080	- 18,837	11,471	12,047	23,457	24,540	Imperial.
7,2	l l	" ,			10,80,640	11,07,444	11,22,442	16,00,601	15,16,111	13,01,496	1	18,38,779	Bengal.*
1,18,5		1			23,01,161		30,16,160	35,43,963	37,12,487	31,85,235	1	50,40,932	United Provinces.
,83,4		". 1		12,68,792	10,32,639	12,17,988	18,10,077	12,39,033	13,54,913	14,38,005		16,87,601	Punjab.
7,81,6	869 98,12	1		91,92,032	93,55,077	1,00,70,117	99,67,594	1,09,22,398	1,14,25,430	97,07,694		1,23,79,531	
	- 1	4)744	2277-37-44	604	***		4,07,218	4,88,959	4,91,785	5,49,770	1		Bihar and Orissa.
 1,06,0		0,592	14,80,447	14,46,868	15,54,782	18,90,035	11,46,320	11,42,091	10,97,969	8,32,877	10,55,052		Assam.†
4,40,1		1,159	22,90,128	20,78,162	20,78,840	21,14,220	25,49,854	81,71,815	31,86,453	82,72,529	32,78,262	33,71,578	Central Provinces and Beray,
z,zoj.	7	-,			0 10 100		0.05.450	2,81,652	3,29,227	1,99,237	4,49,18	4,87,81	Coorg.
2,45,4	119 2,3	35,909	2,74,756	2,21,830	2,13,129	2,70,056	2,05,170	0.07.700	2,66,741	2,38,018			North-West Frontier
1,28,	529 1,8	83,214	2,38,490	1,22,782	1,78,805	2,05,842	1,58,171		2,00,132	2,00,02		1	Province.
15.	002	18,835	29,864	27,615	23,990	83,840	26,961	1 86,596	33,897	31,170	1 \		2 Ajmer.
. 21,		21,195	21,829	23,305	18,729	23,212	20,11	7 20,159	10,988	19,03		1	7 Balnehistan.
5,82,		07,027		2,02,018	2,59,477	4,16,779	5,22,16	0 4,49,025	4,45,811		1		1 Andamans.
,	080	4,579	6,187	4, G80	4,90	4,080	5,55	7,613	5,806	8,61	7 6,09	5 8,19	O Imperial Fore College and R search Institute.
. "		***	,,,				***				•••	,	Forcet Survey
' "							47 67 0	21 41,12,47	3 42,00,82	0 89,41,5	41,06,8	35 45.96.1	2C Madras.
29,67	,	,00,669	1 "	1									
88,84	,003 84	,22,483	1 86,46,17	85,87,85	87,57,65	6 37,18,22	43,80,5	DA JASTAWOY	21,00,10	90,00,00	31,000	00,00	6
2,66,1	4,593 2,6	1,91,4	66,2,53,62,9	70 2,51,56,7	90 2,60,25,7	94,2,74,05,4	151,2,90,57,	350 3,22,09,5	609 3,33,61,8	45,2,97,09,	784 3,11,19.5		37 Grand Total
<u>'</u>	74,593 ¹ 2,6 923-21.	1,91,4	1921-25.	1	90 2,60,25,5 25-20.	94,2,74,05,4 1926-	<u></u>	350 3,22,09,6 1927-28.	1928-		7643,11,103	967 3,70,61,9 Provi	٠, .
-	923-21.	1,91,4	1921-25.	1	25-20.		<u></u>	<u> </u>		29.	7643,11,18.5		٠, , , , ,
-	923-21. Ra.	\$	1921-25.	19		1926-	<u></u>	1927-28.	1923- Rs	20.			٠, .
-	923-2 í. Ra. 29,55	51	1021-25. • Rs.	19	25-20. Ra.	1025- Rs.	27	1927-28. Rs.	1923- Rs	20.	, nporial.		٠, , , , ,
1	923-21. Rs. 29,55	51	1921-25. - Rs. - 89,1	19	25-20. Rs. 28,56,420	1925- Rs.	27	Re 33,49,480	1923- Rs 81,3	29. I. Is,857 B	nperial.	Provi	ام بر د د
	923-21. Ra. 29,55 22,61,57 73,56,02	51 15 29	1921-25. Rs. (80,1) 24,75,5	19. 00 29 37	25-20. Ra 28,56,420 64,26,231	1026- Rs. 31,28	.841 ,803	Ra 88,49,480 72,01,183	1923- Rs 81,1 61,1	20. Ir 18,357 B 50,391 U	nperial. engal. nited Provi	Provi	ام بر د د
, 1	923-21. Ra. 29,55 22,61,51 73,56,02	51 15 29	1921-25. Hs. 80,1 24,75,5 69,21,9 37,27,6	19 00 29 37	25-20. Rs 28,56,420 64,26,231 41,12,076	1926- Rs. 31,29 58,71 89,00	,841 ,803 ,731	Re 38,49,480 72,01,183 31,01,217	1923- Rs 31,1 61,1 '85,1	20. In 18,357 B 8,0,391 U 25,025 P	nperial. engal. nited Provi	Provi	ام بر د د
, 1	Pa. 29,55 22,61,51 73,56,03 43,86,55 (a) 1,94,02,86	51 15 29 33)	1921-25. Rs. (80,1 24,75,5 69,21,9 (37,27,8 (a) 1,96,77,6	19: 000 29 37 12 24 2,	Rs 23,56,420 04,26,231 41,12,076 (2) 23,46,518	1926- Rs. 31,28 59,71 39,07	,841 ,803 ,7731 (a)	Ra 33,49,480 72,01,183 31,01,217 2,21,07,668	1923- Rs 31,3 61,6 85,4	29. Ir. Ir. Ir. Ir. Ir. Ir. Ir. Ir. Ir. Ir	nperial. engal. nited Provi anjah. urma.	Provi	رم بر د د
, 1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 (a) 1,94,02,81	51 15 29 93 90 95	1921-25. Rs. 80,1 24,75,5 69,21,9 37,27,8 (a) 1,96,77,8	19. 000 29 357 12 24 2,	25-20. Rs 28,56,420 64,26,231 41,12,076 (2) 23,46,818 10,28,592	1926- Rs. 31,28 58,71 89,07 2,35,09	,841 ,803 ,791 (a),000	Ra. 	1923- Rs 31,1 61,6 85,9 (1,81,1	29. Is 18,357 B 69,391 U 28,025 P 100,143 B 907,161 B	nperial. engal. nited Provi unjah. urma.	Provi	ام بر د د
1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 1,94,02,81 10,29,03	51 115 229 333) 90 90 90 90 92	1921-25. Hs. 80,1 24,75,5 69,21,9 37,27,8 (a) 1,96,77,8 ,10,70,2	19 000 29 37 112 24 2, 98 56	Rs	1926- Rs. 31,29 58,71 89,07 2,35,09 9,41 81,83	,841 ,803 ,731 (a) ,006 3,752	Rs 38,49,480 72,01,183 31,01,217 (a) 2,21,07,668 (b) 9,38,760 36,13,460	1923- Rs 31,1 61,8 85,1 10,1	20. II 18,357 B 80,391 U 28,025 P 100,143 B 97,101 D 67,873 A	nperial. engal. nited Provi	Provi	nce
1	Pa. 29,55 22,61,51 73,56,02 43,86,55 (a) 1,94,02,80 10,29,00 19,74,2	551 15 29 33)90 90 90 90 90 90 90	1921-25. Rs. (80,1 24,75,5 69,21,9 37,27,8 (a) 1,96,77,5 (10,70,2 24,78,7	100 000 29 37 112 24 2, 68 56	25-20. Rs 23,56,420 64,26,231 41,12,076 (2) 23,46,5,18 10,28,592 30,39,140 40,67,400	1926- Rs. 31,28 58,71 89,07 2,35,07 9,41 81,87	,841 ,803 ,731 (a) ,000 3,752 1,478	Re. 38,49,480 78,01,183 31,01,217 (c1) 2,21,07,668 9,33,760 36,13,460 50,78,166	1923- Rs 31,1 61,6 85,1 1,81,1 10, 87, 51,	29. Ir. Ir. Ir. Ir. Ir. Ir. Ir. Ir. Ir. Ir	nperial. engal. inited Provi- nnjah. eurma. iibar and Ori ssam.	Provi	nce
1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 (a) 1,94,02,86 10,29,00 19,74,2 51,04,0	551 115 229 33 39 39 39 39 39 39 39 39 39 39 39 39	1921-25. Rs. 80,1 24,75,5 69,21,9 37,27,8 (a) 1,96,77,8 10,70,2 24,78,7 52,82,6 6,68,0	19. 19. 19. 19. 19. 19. 19. 19. 19. 19.	25-20. Rs. 23,56,420 64,26,231 41,12,076 (2) 23,46,5,18 10,28,592 30,39,140 40,67,400 5,38,518	1926- Rs. 31,28 59,71 89,02 2,35,09 9,43 31,83 53,2 4,5	,841 ,203 ,731 (a) ,000 3,752 3,478 1,376 8,145	R4. 38,49,480 72,01,183 31,01,217 2,21,07,668 9,38,760 36,13,460 50,78,166 4,98,372	1928- R: 81,1 61,8 '85,' (1,81,' 10,' 54,' 55,'	29. II. II. II. II. II. II. II. II. II. I	nperial. singul. nited Provi- unjah. urma. ibar and Ori seam. entral Provi-	Provi	nce.
1	Pa. 29,55 22,61,57 73,56,02 43,86,55 1,94,02,86 10,29,00 19,74,2 51,04,90 7,00,9	551 115 229 333) 990 1855 1902 1920	1921-25. Its. 80,1 24,75,5 69,21,9 37,27,8 1,96,77,8 10,70,2 24,78,7 52,82,6 6,68,6	19 000 29 37 112 24 2, 98 56 32 30	25-20. Rs. 23,56,420 64,26,231 41,12,076 (a) 23,46,518 10,23,592 30,39,140 40,67,400 5,38,518 7,44,207	1926- Rs. 31,29 58,73 89,67 2,35,0; 9,43 81,8; 53,2; 4,5; 7,9;	,841 ,803 ,731 ,000 3,752 3,473 1,376 8,145	Rs. 38,49,480 72,01,183 31,01,217 (a) 2,21,07,668 9,38,760 36,13,460 50,78,166 4,97,372 7,55,700	1923- Rs 31,1 61,8 85,1 (6,1 10,1 51,5 51,5 8,6	29. II 18,357 B 30,391 U 23,025 P 100,143 B 107,101 II 67,873 A 46,316 C 22,630 C 29,377 X	nperial. engal. nited Provi unjah. urma. ibar and Ori esam. entral Provi corg.	Provi	nce.
1	Pa. 29,55 22,61,51 73,56,03 43,86,53 1,94,02,81 10,29,00 19,74,2 51,04,0 7,00,9 5,33,3 .55,4	551 115 229 333)) 900 885 1202 120 147 1332	1921-25. Re. (80,1 24,75,5 69,21,9 37,27,8 (a) 1,96,77,5 10,70,2 24,78,7 52,82,6 6,68,6	19: 10: 10: 10: 10: 10: 10: 10: 10	25-20. Rs. 23,56,420 64,26,231 41,12,076 (2) 23,46,5,18 10,28,592 80,39,140 40,67,400 5,38,518 7,44,207 72,759	1926- Re. 31,28 58,71 89,07 2,35,09 9,41 81,83 53,2 4,5	27 ,841 ,803 ,7291 (a) ,000 3,752 1,478 1,276 8,145 1,160	Re. 38,49,480 72,01,183 31,01,217 (c) 2,24,07,668 (b) 9,35,760 36,13,460 50,78,166 4,99,372 7,56,700 76,515	1923- Rs 31,1 61,4 85,4 (1,81,1 10, 87, 51,	22). 1. 1. 1. 1. 1. 1. 1. 1. 1.	nperial. engal. inited Provi- nnjah. eurma. iibar and Ori saam. eutral Provi- corg. forth-West I	Provi	nce.
1	923-21. 29,55 22,61,51 73,56,02 43,86,55 (2) 1,94,02,81 10,29,00 19,74,2 51,04,0 7,00,9 5,33,3 .55,4	551 15 29 83 3) 90 85 50 20 20 47 33 22 40 3	1921-25. Rs. 80,1 24,75,5 69,21,9 37,27,8 ,10,70,2 24,78,7 52,82,6 6,69,1 66,6	19: 29: 37: 12: 24: 2, 68: 556: 330: 667: 662:	25-20. Rs. 28,56,420 64,26,231 41,12,076 (a) 23,46,518 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621	1926- Rs. 31,28 59,71 39,07 2,35,07 9,41 31,87 53,22 4,57	27 ,841 ,803 ,731 (a) ,006 3,752 3,473 1,376 8,145 1,160	Rs. 88,49,480 72,01,183 31,01,217 (c) 2,21,(7,668 9,38,766 36,13,460 50,78,100 4,99,372 7,56,700 76,515 29,867	1923- Rs 31,1 61,6 85,4 (1,81,1 10, 67, 54,	29. In 18,357 B 80,391 U 25,025 P 27,101 B 27,101 B 25,630 C 25,630 C 29,377 X 87,924 A 23,425 I	nperial. engal. nited Provi unjah. urma. ibar and Ori esam. entral Provi corg.	Provi	nce.
1	Pa. 29,55 22,61,57 73,56,02 43,86,55 1,94,02,60 19,74,2 51,04,9 7,00,9 5,33,3 .55,4 22,4 8,11,8	551 115 229 33 390 185 190 202 1920 1920 1920 1920 1920 1920 1	1921-25. Its. 80,1 24,75,5 69,21,9 37,27,8 ,10,77,2 24,78,7 52,82,6 6,68,0 6,69,1	19 00 29 37 112 24 2, 98 30 67 67 67 67 68 56 59 7	25-20. Rs. 28,56,420 64,26,231 41,12,076 (a) 23,46,518 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621 6,91,020	1926- Rs. 31,29 58,73 89,67 2,35,0; 9,43 81,8; 53,2; 4,5; 7,9; 0 22	,841 ,803 ,731 ,006 3,752 3,473 1,376 8,145 1,160 6,034 7,942	Re. 38,49,480 72,01,183 31,01,217 2,21,07,668 9,38,766 36,13,460 50,78,166 4,99,372 7,50,700 76,515 20,867 14,18,062	1928- R: 81,1 61,6 (1,81,1 10, 87, 51, 68,	29. II 18,357 B 30,391 U 23,025 P 100,143 B 97,101 D 67,873 A 46,316 C 22,630 C 22,637 N 87,924 A 23,425 I	nperial. engal. nited Provi- unjah. urma. ibar and Ori esam. entral Provi- corg. forth-West I imer. dalnohistan.	Provi	nce.
1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 (2) 1,94,02,61 10,29,00 19,74,2 51,04,9 7,00,9 5,33,3 .55,4 8,11,8 1,67,5	551 115 229 33 390 185 190 202 1920 1920 1920 1920 1920 1920 1	1921-25. Rs. 80,1 24,75,5 69,21,9 37,27,8 10,70,2 24,78,7 52,82,6 6,69,1 66,0 20,7,25,1,02,	19 00 29 37 112 24 2, 98 30 67 67 67 67 68 56 59 7	25-20. Rs. 23,56,420 64,26,231 41,12,076 (2) 42,46,5.18 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621 6,91,029 1,05,097	1926- Rs. 31,28 58,71 39,07 2,35,02 9,43 31,33 53,22 4,5 7,90 22 11,7	27 ,841 ,203 ,731 ,000 3,752 3,473 1,376 5,034 7,942 0,663 14,625	Rs. 88,49,480 72,01,183 31,01,217 2,21,(7,668 9,38,766 36,13,460 50,78,100 4,98,372 7,56,700 76,515 29,867 14,18,002 ,1,16,167	1928- Rs 31,3 61,6 85,4 10,6 87,54,6 5,8,	29. II 18,357 B 60,391 U 23,025 P 100,143 B 97,101 B 67,873 A 46,816 C 25,630 C 229,377 N 67,924 A 23,425 I 20,0706 A	nperial. engal. nited Provi- nnjah. eurma. iihar and Ori saam. eutral Provi- corg. forth-West I jimer. Salnehistan. andamans.	Provi	orat.
1	Pa. 29,55 22,61,51 73,56,02 43,86,55 1,94,02,86 10,29,00 19,74,2 51,04,0 7,00,9 5,33,3 .55,4 8,11,8 1,67,5	551 15 29 33 3) 90 90 90 90 90 90 90 90 90 90 90 90 90	1921-25. Rs. (80,1) 24,75,5 69,21,9 37,27,8 (0) 1,96,77,5 24,78,7 52,82,6 6,69,7 60,6	100 29 37 12 24 2, 68 56 32 30 67 67 62 39 39 597	25-20. Rs 23,56,420 64,26,231 41,12,076 (2) 43,46,5,18 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621 6,91,029 1,05,097	1926- Rs. 31,28 58,71 89,07 2,35,07 9,43 81,57 53,22 4,57 7,90 22 11,7	27 ,841 ,803 ,791 (a) ,006 3,752 3,473 1,976 5,034 7,942 0,663	R4. 88,49,480 72,01,183 31,01,217 2,21,07,668 9,38,766 36,13,460 50,78,160 4,97,372 7,55,700 76,515 20,867 14,18,062 , 1,16,167	1923- Rs 31,3 51,6 85,6 1,81,1 10,87,51,6 5,8	29. III	nperial. engal. inited Provingal. inited Proving	Provi	orat.
1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 (2) 10,29,00 19,74,2 51,04,9 7,00,9 5,33,3 .55,4 8,11,8 1,67,5	551 15 229 33 3) 90 90 90 90 90 90 90 90 90 90 90 90 90	1921-25. Its. 80,1 24,75,5 69,21,9 37,27,8 1,96,77,8 10,70,2 24,78,7 52,82,6 6,68,6 6,69,7 20,7 7,25, 1,09,	19 00 29 37 12 24 2, 68 56 67 162 167 162 167 162 167 167 167 167 167 167 167 167	25-20. Rs. 28,56,420 64,26,231 41,12,076 (a) 23,46,518 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621 8,91,029 1,05,007	1926- Rs. 31,28 59,71 89,02 2,35,02 9,41 31,83 53,2 4,5 7,92 11,7 2,7	27 ,841 ,203 ,731 (4) ,000 3,752 3,478 1,376 5,034 7,942 0,863 14,025	Re. 38,49,480 72,01,183 31,01,217 2,21,07,668 9,38,766 36,13,460 50,78,166 4,97,372 7,56,700 76,515 20,867 14,18,062 ,1,16,167	1928- R: 81,1 61,6 1,81,1 10, 87, 51, 10, 11, 11, 11, 11, 11, 11, 11, 11, 1	29. In 18,357 B 18,357 B 19,391 U 25,025 P 27,101 D 67,873 A 46,316 C 25,630 C 29,377 N 87,924 A 19,3425 I 19,547,738 I 154,773 I 154,77	nperial. nited Provingal. nited Provingal. nited Provingal. nited Provingal. nited Provingal. nited Provingal. stand. corg. forth-West Injunct. salnohistan. adamans. mporial Forost Survo	Provi	orat.
1.	Pa. 29,55 22,61,51 73,56,02 43,86,55 1,94,02,86 10,29,00 19,74,2 51,04,0 7,00,9 5,33,3 .55,4 8,11,8 1,67,5	551 15 229 33 3) 90 90 90 90 90 90 90 90 90 90 90 90 90	1921-25. Rs. (80,1) 24,75,5 69,21,9 37,27,8 (0) 1,96,77,5 24,78,7 52,82,6 6,69,7 60,6	19 00 29 37 12 24 2, 68 56 67 162 167 162 167 162 167 167 167 167 167 167 167 167	25-20. Rs 23,56,420 64,26,231 41,12,076 (2) 43,46,5,18 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621 6,91,029 1,05,097	1926- Rs. 31,28 59,71 89,02 2,35,02 9,41 31,83 53,2 4,5 7,92 11,7 2,7	27 ,841 ,803 ,791 (a) ,006 3,752 3,473 1,976 5,034 7,942 0,663	R4. 88,49,480 72,01,183 31,01,217 2,21,07,668 9,38,766 36,13,460 50,78,160 4,97,372 7,55,700 76,515 20,867 14,18,062 , 1,16,167	1928- R: 81,1 61,6 1,81,1 10, 87, 51, 10, 11, 11, 11, 11, 11, 11, 11, 11, 1	29. In 18,357 B 18,357 B 19,391 U 25,025 P 27,101 D 67,873 A 46,316 C 25,630 C 29,377 N 87,924 A 19,00,706 A 19,00,001 I 19,54,743 I 19,45,035 I 19,45,035 I	nperial. engal. inited Provi- unjah. inma. ihar and Ori seam. entral Provi- corg. forth-West I limer. saluehistan. indamans, mperial For	Provi	orat.
,1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 (2) 10,29,00 19,74,2 51,04,9 7,00,9 5,33,3 .55,4 8,11,8 1,67,5	551 15 229 33 3) 90 90 90 90 90 90 90 90 90 90 90 90 90	1921-25. Its. 80,1 24,75,5 69,21,9 37,27,8 1,96,77,8 10,70,2 24,78,7 52,82,6 6,68,6 6,69,7 20,7 7,25, 1,09,	19 00 29 37 12 24 2, 68 56 67 162 167 162 167 162 167 167 167 167 167 167 167 167	25-20. Rs. 23,56,420 64,26,231 41,12,076 (2) 23,46,5,18 10,28,592 30,39,140 40,87,400 5,38,518 7,44,207 72,759 23,621 8,91,029 1,05,097 75,28,038	1926- Rs. 31,29 58,71 89,07 2,35,09 9,41 81,83 53,2 4,5 7,99 0 21 11,7 2,7	27 ,841 ,203 ,731 (4) ,000 3,752 3,478 1,376 5,034 7,942 0,863 14,025	Re. 38,49,480 72,01,183 31,01,217 2,21,07,668 9,38,706 36,13,460 50,78,166 4,98,372 7,56,700 76,515 29,867 14,18,062 1,16,167	1923- R: 81,1 61,1 85,6 (1,81,1 10, 87, 51, 6, 1, 73	29. II 18,357 B 60,391 U 23,025 P 100,143 B 97,161 B 97,161 B 25,630 C 25,630 C 25,630 C 25,630 C 1,00,706 L 2,00,706 L 3,42,31 I 4,51,728 I 4,50,35 I	nperial. nited Provingal. nited Provingal. nited Provingal. nited Provingal. nited Provingal. scam. entral Provingal. corg. forth-West Injunct. Salnohistan. andamans. mporial Forest Survo	Provi	orat.
1,1	923-21. Ra. 29,55 22,61,51 73,56,02 43,86,55 10,29,00 19,74,2 51,04,9 7,00,9 5,33,3 .55,4 8,11,8 1,67,5	551 15 29 83 3) 90 85 50 2 90 90 90 90 90 90 90 90 90 90 90 90 90	1921-25. Its. 80,1 24,75,5 69,21,9 37,27,6 10,70,2 24,78,7 52,82,6 66,6 20,7,25, 1,03,	19: 29	25-20. Rs. 28,56,420 64,26,231 41,12,076 (a) 23,46,518 10,28,592 30,39,140 40,67,400 5,38,518 7,44,207 72,759 23,621 8,91,029 1,05,007	1926- Rs. 31,28 59,71 89,02 2,35,0; 9,43 31,83 53,2 4,5; 7,9; 0 22 11,7 2,7	27 ,841 ,203 ,731 (4) ,000 3,752 3,478 1,376 5,034 7,942 0,863 14,025	Re. 38,49,480 72,01,183 31,01,217 2,21,07,668 9,38,766 36,13,460 50,78,166 4,97,372 7,56,700 76,515 20,867 14,18,062 ,1,16,167	1923- Rs 81,1 61,6 85,6 1,81,1 10,67,51,6 8,73	29. III III III III III III III III III I	nperial. nited Provingal. nited Provingal. nited Provingal. nited Provingal. nited Provingal. scam. entral Provingal. corg. forth-West Injunct. Salnohistan. andamans. mporial Forest Survo	Provi	orat.

⁽b) Excludes Rs. 52,161 deducted on account of Refunds.

STATE

Expenditure of the Forest Department throughout India for the 30 financial years (II) EXPEN.

Province.	Average of 1869-70 to 1873-74.	Average of 1874-75 to 1878-79.	Average of 1879-80 to 1883-84.	Average of 1884-85 to 1888-89.	Average of 1889-90 to 1893-91.	Average of 1894-95 to 1898-99.	1699-1900.	1900-01.	1901-02.	1902-03,	1903-04.	1904-05.
		_	_	77.4	Rs.	Ra.	Rs.	Rs.	Ba.	Rs.	$\mathbf{R}_{\mathbf{E}}$	Ra.
	Ba.	Rs.	Rs.	Rs. 57,185	64,125	82,616		83,578	79,539	85,017	59,345	83,058
Imperial* · ·	63,685	67,102	80,454		4,04,147	5,38,652		5,70,806	6,57,131	6,38,014	7,03,508	6,88,589
Bengalt · ·	1,11,084	2,12,024	3,55,147	3,94,347	9,46,428	9,35,078		9,63,439	10,08,739	10,18,998	10,81,438	13,91,583
United Provinces •	9 63,005	8,39,709	8,38,658	9,17,898	6,46,374	7,50,224		8,87,343	9,38,335	9,60,095	11,56,415	10,12,354
Panjab · · ·	8,29,326	5,57,148	5,41,242	6,44,372	16,72,383	21,20,642		26,54,717	26,46,457	28,00,203	93,52,401	31,46,921
Burma · · ·	4,02,847	8,12,279	10,12,512	13,22,424								***
Bihar and Orissa .	•	•••	***		0.00110	2,86,870	3,57,140	3,47,972	3,20,112	3,27,498	4,25,464	5,03,656
Assamt	144	88,293	,1,62,460	2,11,655	2,68,159			11,65,866	12,00,901	12,57,288	12,80,960	13,20,615
Central Provinces and Berar.	3 99,072	4,33,774	6,13,539	7,37,805	10,10,657	11,78,680 82,140		70,905	82,333	89,437	92,191	E3,820
Coorg	40,684	36,591	62,248	73,907	77,016	04,191			19,510	54,086	60,603	74,958
North-West Frontier Province-		•••	•••				ייי	16,782	15 927	16,377	16,680	15,641
Ajmer	6,197	18,692	13,197	17,620	14,061	16,72		29,254	24,480	23,240	21,697	24,672
Balnohistan	•••		12,591	16,180	39,452	33,50	1			2,81,702	2,66,121	3,42,431
Andamans	739	481	5,129	41,108	1,76,189	1,85,42		1,40,137	2,04,867		59,339	
imperial Forest Col- lege and Research			***	25,746	45,023	65,12	73,550	71,238	76,290	66,338	35,505	61,124
Institute. Forest Surveys (Im- portal).	11,911	63,289	40,447	24,477	24,491	81,93	6 33,930	33,991	33,730	33,985	33,935	23,229
Mugras	4,56,834	5,76,976	6,20,660	10,67,521	12,65,113	15,06,75	6 16,53,530	17,15,431	17,09,554	18,85,552	17,50,930	19,86,098
Bombay ,	6,48,046	8,70,467	12,51,292	18,41,812	19,09,789	19,61,59	2 21,28,130	24,06,581	17,19 680	16,76,441	17,75,937	10,03,804
Grand Total .	39,33,43	45,76,804	56,09 579	74,26,95	86,03,35	2 97,98,14	0 1,10,24,68	0 1,11,60,010	1,07,46,388	1,12,49,331	1,21,66,99	3 1,20,67,85
	ovince.			1917-18.	1018-1	18	1919-20.	192	0-21.	1921-22.]	922-23.
			¦	Rs.	Re		Re.	-	ts.	Rs.	1.6	Rs
:			1	ns.	1.0	•	2.01			o hts 01		4,83,494
Imperial*				90,332	1,1	0,638	1,32,77		,68,993	2,57,0	1	12,31,249
Bongal :	: · .		. !	7,89,712	8,2	5,835	9,72,30		36,750	12,68,1	1	
United Provinces				32,04,928	45,0	6 963	61,55,47		,43,578	74,04,6		61,58,486 49,06,671
Panjab				11,58,048	17,8	5,804	21,16,12	·	,75,719	43,76,0		99,72,149
Burma				54,87,179	56,8	1,982	65,38,20	1	,07,014	90,83,0	- 1	7,17,531
Bihar and Orissa				3,90,716	4,3	0,849	5,06,80	1	,89,118	9,84,6		11,14 631
Assam				G,86,627	6,9	0,961	8,21,71		,66,601	9,91,5		30,84,417
Central Provinces and	Borar		٠.	18,72,124	20,1	5,548	23,76,23		,33,601	27,15,8	1.	5,86,007
Coorg				1,09,911	4,2	5 572	5,07,54	•	,66,758	6,30,6		6,12,333
North-West Frontier	Province			1,58,875	2,0	7,857	3,01,45	8 4	,54,197	7,49,3		89,84
ajmer .				26,504	\ 2	8,508	47,28	2 ,	37,417 '	41,3		36,16
Baltiohistau .			. 1	29,990	2	3,787	25,31		28,761	53,2		8,05,18
Andamans				3,97,724	63	2,826	-9,71,49	- 1	,27,930	12,87,0		7,89,58
Imporial Forest Colle	ge and Res	earch Instit	nte .	2,89,691	2,5	3,048	3,18,50	9 4	,57,484	7,82,8	3	1,19,93
Ecrest Surveys (Impo	rial) .			56,597	1	9,110	59,95	1	90,448	1,07,1	l l	,
Mailras .				80,20,349		2,520	36,99,84		,30,480 ,05,022	51,15,3 50,23,9	1	47,69,46 40,14,84
Bombay	•	• •	• †	38,53,714	78,7	2,107	50,18,68	2 , 53	,00,000			
		Grand Tot	al	2,11,57,063	2,88,7	75,505	8,17,63,19	3,64	,19,907	4,08,51,8	78.	. 8, 93, 12,041
			1-		<u> </u>					tent Income	day Canan	al of Fores

Includes pay of Inspector-General of Forests, Assistant Inspector-General of Forest Includes figures up to 1910-11 for districts subsequently transferred to Bilar an Includes figures up to 1910-11 for Eastern Bengal districts subsequently transferre

(a) Includes Federated Shan States

MENT XIX—contd.

from 1899-1900 to 1928-29 and the average of 6 quinquennial periods from 1869-70 to 1898-99.

DITURE.

Ba.			.										
Re.		1906-07.	1907-08.	1	1900-10.	1910-11.	1911-12.	1912-13	. 1913-14.	1914-15,	1915-16.	1916-17.	Previnco.
Ba.									_				
83,757	,	Pa	יים.	D _o		1	, _{Da}	. Pa	Ro	Do.	D-	Da	
\$\(\begin{align*}{ccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{cccc} \begin{align*}{ccccc} \begin{align*}{ccccc} \begin{align*}{ccccc} \begin{align*}{cccccccccccccccccccccccccccccccccccc						1		f.	1	1		1	Imperial #
185,186 18,06,881 11,04,093 12,02,386 12,00,386 12,37,588 12,57,588 12,52,591 10,04,408 11,04,408 11,04,408 11,04,509 12,04,508 10,04,50	,		,	1				1	1		1-	1	
14,448	' · .			**		1		}			1		United Provinces.
18,005 36,50,713 35,51,282 37,17,297 30,80,615 68,42,700 41,31,162 41,23,284 42,74,001 46,50,447 46,50,4	7 1		' ' ' '	5					1		1	,	
		,59,753	85,51,532	87,17,247	36,83,618	88,42,700		•	42,74,901	1	1	49,36,588	-
10,510 7,07,800 8,06,375 8,01,849 10,12,841		4.	411	***	4**		8,00,916	8,75,894	3,55,648	3,81,371		4,47,972	Bihar and Orlesa
September Sept	,93,910 7	,07,860	8,00,373	8,91,849	10,12,541	10,87,340	8,41,013	8,08,911	9,10,240	8,98,339	7,55,214	6,76,033	Assam.I
96,748	,07,153 19	,42,898	15,83,407	17,53,807	15,86,832	15,89,533	18,38,579	19,46,785	10,53,129	19,36,569			Contral Provinces Berar.
95,258 9,250 83,400 81,410 77,501 73,492 89,456 1,22,178 1,31,023 1,25,189 1,04,705 1,18,970 Provinces. 77,191 16,715 15,188 19,916 19,272 19,013 22,313 29,714 23,655 21,733 25,132 20,634 After. 25,743 25,222 31,235 30,585 20,649 20,549 20,357 22,017 28,527 25,010 25,000 27,935 26,022 31,5045 1,504,001 1,00,174 2,10,165 2,6045 2,5142 2,74,676 2,52,056 4,80,522 4 28,052 1,505,605 1,505,605 1,505,005 1,	95,748 7	,02,655	1,01,819	99,593	1,07,822	1,07,670	1,21,175	1,61,511	1,78,514	1,75,833	1.76,633	1.60.492	
17,151 16,715 16,185 19,516 19,572 19,012 22,213 23,714 23,603 21,733 25,132 26,624 Almer. 25,743 25,22 21,235 30,566 20,740 22,357 25,017 28,577 25,010 25,000 27,955 26,624 Almer. 25,743 25,22 21,235 30,566 20,740 22,357 25,017 28,577 25,010 25,000 27,955 26,024 Almer. 25,743 25,22 21,180,021 1,91,190 2,25,003 2,61,722 2,55,144 2,74,676 25,005 4,90,822 428,002 Amdominus. 26,060 1,67,456 1,86,033 1,83,101 1,93,742 2,10,183 2,63,412 2,63,445 2,93,305 33,1,021 2,73,518 3,05,495 Imperial Forces. 26,060 1,67,456 1,86,033 1,83,101 1,93,742 2,10,183 2,63,412 2,63,445 2,93,305 33,1,021 2,73,518 3,05,495 Imperial Forces. 26,060 1,67,456 1,86,035 1,83,101 1,93,742 2,10,183 2,63,412 2,05,445 2,93,305 31,021 2,76,518 3,05,495 Imperial Forces. 26,060 1,90,413 1,90,413 1,90,62 11,002 41,140 38,705 31,50,495 10,55,617 21,60,625 11,60,625 11,60,625 11,60,625 11,60,625 11,60,625 11,60,625 11,60,60 11,60,625 11,60,605 1	95,258	92,650	88,400	81,413	77,891				1				North-West Fronti
25,743 25,52 31,233 30,556 20,549 20,337 25,017 25,527 25,310 25,000 27,395 25,029 Baluchistan. 25,743 25,52 31,233 30,556 20,449 20,337 25,017 25,527 25,310 25,000 27,395 25,029 Baluchistan. 25,060 1,37,456 1,55,030 1,59,191 1,05,119 2,10,183 2,50,031 2,55,41 2,74,676 2,25,541 2,74,676 2,25,035 3,31,091 2,73,518 3,05,495 Imperial Forces Congress of Provided Flore Constitution (Institution Constitution	TH 101	10 915	10 100	10.04	70 000	40	A						Province.
1,85,685 2,95,195 2,29,227 180,961 1,9,159 2,20,063 2,61,752 2,55,141 2,74,676 2,28,058 4,90,282 426,9			4			` '			1				A .
80,600 1,97,456 1,58,005 1,50,101 1,90,174 2,10,183 2,63,411 2,65,445 2,95,305 3,31,001 2,75,518 3,05,405 Superint Forces of the control of the con									4				
80,044 30,389 27,060 29,128 41,062 41,140 38,708 35,500 37,743 42,83 45,663 47,407 Protect Institute, see and Research Institute, see and Rese	1	1 1		,								1	
25,602 21,80,600 27,80,837 29,17,201 83,80,635 32,25,801 34,14,682 31,50,482 22,03,8,613 29,00,685 29,27,318 29,42,678 Inorth). 25,603 19,90,153 19,55,437 20,43,873 20,63,688 20,70,417 26,64,430 20,94,455 22,80,677 21,87,025 26,64,801 20,80,455 1,72,07,810 1,75 43,4581,82,06,459 1,85,192,6071,67,43,585 Gealth Totals. 1,20,821 1,40,62,819 1,45,12,333 1,47,26,034 1,49,20,651 1,82,44,023 1,69,45,661,72,07,810 1,75 43,4581,82,06,459 1,85,192,6071,67,43,585 Gealth Totals. 1,24,480 1,68,595 1,15,903 1,23,858 61,661 80,861 12,42,672 14,17,471 12,60,969 17,34,761 17,02,453 16,82,191 180,695 36,64,005 36,95,346 33,73,400 39,83,803 32,45,716 10,82,400 163,661 163,662 163,663 11,65,663 11,65,663 11,65,663 11,65,663 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,660 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,65,663 12,20,007 14,56,664 13,88,967 11,666,667			11001000	1,00,101	1,00,114	2,10,183	2,04,411	2,05,445	2,95,398	8,31,091	2,78,518	8,05,495	Imperial Forest (lege and Research Institute,
2,20,021 1,40,62,819 1,45,12,933 1,47,20,034 1,49,20,651 1,52,40,21 1,09,45,561 1,20,94,55 2,50,651 21,67,025 22,27,316 23,42,672 1,67,43,585 Grant Total. 1925 24. 1924-25. 1925-26. 1920-27. 1927-23. 1923-20. Province. Rs.						41,140	38,798	35,809	37,743	42,353	45,663	47,407	Forcet Surveys (I:
2.00,521 1,40,62,519 1,45,12,935 1,47,25,034 1,49,20,651 1,52,44,023 1,69,46,566 1,72,07,510 1,75 43,455 1,53,06,450 1,55,02,607 1,67,43,583						82,25,801	34,14,882	81,50,482	120,85,817	28,60,685	20,27,918	28,42,678	Madrag, .
1925-24. 1924-25. 1925-26. 1920-27. 1927-23. 1925-29. Frovince. Rs.	26,003 19	,90,183	19,55,497	20,43,873	20,63,058	20,70,417	26,61,430	26,91,455	25,89,877	21,67,925	26,42,038	25,64,681	Combay.
1,44,480	1923-24.	, 15	024-25.	1925-	26.	1920-27.	192	7-28.	1928-29,			Provinc	4
12,42,672	Rs.		Rs.	Rs	.	Rs.	E	Re.	Rs.				,
12,42,672	1,44,480		1,68,595	,1,18	3,903	1,23,858		61,661	50,86	1 Imper	in) #		
43,55,695		1				17,84,761	17,	02,453	16,82,19	1		- 4	•
23,10,035 (a)		1			ı	83,73,490	39,	93,803	82,43,71				•
7,50,057	(a)	1	(a)	(1a)		27,03,386			21,93,31	. 1		- 4	•
11,59,845		ŧ					88,	87,859	84,24,77	1 Burma			
11,63,625						10,83,009	6,	63,874	8,50,87	Bihar	and Orissa.	1	
5,65,598 3,58,761 3,05,395 2,84,770 2,59186 2,65,183 Control Provinces and Borar, 4,68,567 5,68,713 5,47,321 6,40,719 6,91,414 8,34 935 North-West Frontier Province, 43,454 49,125 55,161 79,728 82,854 76,855 Ajmer, 31,440 30,478 81,958 32,422 84,010 86,878 Baluchistan, 8,96,214 11,55,600 11,95,063 12,20,097 14,50,684 13,28,927 Andamans. 7,75,642 8,26,865 8,14,033 8,90,568 0,35,864 9,41,787 Imperial Forest College and Research Institutes, 95,044		1 '	1			,	14,6	15,767	21,22,36				·
4,58,567 5,68,713 5,47,821 6,40,719 6,91,414 5,34 935 North-West Frontier Province, 49,454 49,125 55,161 79,728 82,854 76,855 81,440 30,478 81,958 32,422 34,010 86,878 8,96,214 11,55,600 11,95,063 12,20,097 14,50,684 13,28,927 7,75,642 8,26,865 8,14,033 8,90,568 0,35,864 9,41,787 95,044 46,33,826 50,72,459 48,23,230 50,86,844 47,60,531 45,50,603 Madrae. 44,01,024 43,82,817 42,07,620 43,59,510 43,11,781 44,92,445 Rombay.		1					1		36,49,25	Contra	Provinces	and Borar,	
49,454 49,125 55,161 79,728 82,854 81,440 80,478 8,96,214 11,55,600 11,95,663 12,20,097 14,50,684 13,28,927 7,75,642 8,26,365 8,14,033 8,90,566 9,31,864 9,41,787 46,33,826 50,72,459 48,23,230 50,86,644 47,60,591 43,59,510 48,11,781 44,92,445 Bombay, North-West Frontier Province, Ajmer. Baluchistan, Andamans. Imperial Forest College and Research Institute, Forest Surveys (Imperial). Madras. Bombay,		1			,		! '	1	2,65,188				
81,440			- 1		Į			- 1		2.00	West Front	ier Province),
8,36,214 11,55,600 11,95,663 12,20,097 14,50,684 13,28,927 Andamans. 7,75,642 8,26,365 8,14,033 8,90,568 0,35,864 9,41,787 Imperial Forest College and Research Institute, 46,33,826 50,72,459 48,23,230 50,86,844 47,60,824 45,50,603 44,01,024 43,82,817 42,07,620 43,59,510 43,11,781 44,92,445 Bombay.		1	· ' }		1		1	ı	-	Aimer,			
7,75,642 8,26,365 8,14,033 8,90,568 0,35,864 9,41,787 Imperial Forest College and Research Institute, 46,33,826 50,72,459 48,23,230 50,86,644 47,60,521 45,50,603 44,01,024 43,82,817 42,07,620 43,59,516 43,11,781 44,92,445 Bombay.		`;						ł			1 "		
95,044 46,33,826 50,72,459 48,23,230 50,86,644 47,60,591 45,50,603 44,01,024 43,82,817 42,07,620 43,59,510 43,11,781 44,92,445 Hombay.		-			[}	1			1 -		`
46,33,826 50,72,459 48,23,230 50,86,644 47,60,521 45,50,603 Madras. 44,01,024 43,82,817 42,07,620 43,59,510 43,11,781 44,92,445 Bombay.		1 '					1	D,864	9,41,787	Imperin	l Forest Co	llege and R	oscarch Institute
44,01,024 43,82,817 42,07,620 43,59,510 48,17,781 44,92,445 Bombay.		1	- 1		380		ì	n ×n.		Forest 8	drvoys (In	porial).	
30,00,010 48,16,781 44,92,445 Bombay,	44,01,024	2	1				I	- 1			١.	,	
				,,	,	***************************************	50,1	578L		Bombay	•		•
18,15,869 3,52,67,888 8,89,53,202 S,50,06,216 3,55,61,654 2,50,61,260 Grand Total. Retablishment, and undustributable and party local items and revenues and charges, on Indore and Bangalore Excludes Home charges.	3,58,15,869	i '	1	's _	, 1 ,				8,50,61,260	Grand T	oial.	٠,	•

STATE

Surplus of the Forest Department throughout India for the 30 financial year

(III) SUR

			•					' '			1	
	Averago	Average	Average	Avernge	Average	Average				. [
	of 1869-70	of 1674-75	of 1879-80	of 1884-85	1880-90	of 1894-95	1699- 1900.	1900-01.	1901-02.	1902-03,	1003-04.	1904-05,
Province.	to	to	to 1883-84.	to 1988-89.	to 1893-94.	1898-99.	1				i i	
	1873-74.	1878-79.	1000.03.							ļ		
	Rs.	Rs.	Rs.	Rs.	Rs.	Ŗs,	Rs.	Rs.	Re.	Rs.	- Rs.	Rs.
	1 ' 1	-35,885	-55,025	-76,269	-78,978	-78,128	-90,460	-81,115	-76,055	61,858	81,690	-79,290
mperial*	-61,510		2,51,431	2,37,037	3,62,254	5,10,712	5,93,700	6,62,533	6,85,106	6,18,233	3,62,015	4,78,883
Bengalt	53,284	77,748			7,42,767	5,96,746	6,72,860	6,02,024	7,06,769	10,11,826	11,99,008	1
United Provinces	2,95,974	3,81,941	2,95,957	5,45,627					5,09,223	6,26,313		10,05,735
Paniab	1,41,993	1,48,410	1,96,096	2,67,578	2,54,043	8,89,236	1,89,810	4,68,499			5,01,332	8,62,059
Burms	4,91,451	6,16,896	9,75,844	11,78,801	33,06,271	44,91,900	53,64,610	53,09,727	82,27,481	38,48,790	49,16,131	55,12,832
Bihar and Orissa .	444		•11	.la	***		***	404	***		***	***
Assamt .	.,.	12,805	29,427	20,400	1,14,891	1,29,013	2,10,960	2,01,549	1,63,851	2,52,701	2,50,248	3,12,021
Central Provinces and	3,42,807	5,46,202	6,68,453	6,73,358	6,78,848	1,07,293	21,670	99,748	1,78,212	4,27,140	7,17,065	6,92,844
Berar,	52,807	42,296	40,922	S Q,117	76,120	\$1,310	88,190	66,691	87,909	1,01,293	1,31,840	1,09,267
Coorg North-West Frontier		44,430	2010	***	441		.,,		6,498	47,038	41,230	16,033
Province,	***						. k 000	_ 0 300	-9,062	-6,611	2,796	1,656
Ajmer	 6,132	_ 17,540	8,722	, 5,761	1,172	-2,560 -18,178	-5,060 -11,620	-6,136 -12,298	-9,768	-3,904	3,334	-2,117
Balnchistan	•••	•••	-4,033	5,157	-21,454		ł .		62,236	44,833	1,61,260	2,78,965
Andomans	4,728	4'004	29,711	16,525	1,02,589	69,010	1,19,660	1,37,749	ļ		-56,301	
Imperial Forest Col- lege and Research Institute.	٠,,	, ***	1-1	 28,840	-43,887	62,060	-70,810	67,511	-72,745	, = 68,066	90'901	-57,667
Forest Surveys (Imperial),	-11,911	÷.63,271	₹0,808	-24,271	-23,823	-\$1,636	-33,560	-33,664	-33,257	-30,951	33,501	-28,229
Madras	1,46,409	11,413	1,85,360	2,32,960	4,29,215	6,04,232	6,48,760	6,24,739	8,83,876	7,78,267	9,06,797	1
Bombay	5,29,627	3,58,074	6,42,526	11,69,502	14,45,104	10,64,662	2,86,770,	5,52,948	6,60,040	6,52,715	9,75,602	11,16,954
			DO AT 004	(0 (1 300	PO 4E 000	79,19,616	79,61,930	86,10,453	70,77,827	82,22,209	1,00,49,75	41,10,62,09
Grind Total '	16,96,631	20,83,593	32,07,634	42,41,192	73,45,662	145.14,040	Intrafato	1	1	1		1
سسب د د دوري		•	']			1					-	
			11	17-18.	1918-19	D.	1919-20.	1920-	21.	1921-22.		1922-23.
- Provi	ince-									•		
<u> </u>			_					-	-			70-
ر در				Rs.		Re.	Rs.		Rs.	Re		Bs.
Imperial*				-36,612	-81	3,150	-1,08,250	-1,	41,871	-3,59,26		-4,06,911
Bengal				6,88,257	11,1	3,260	10,78,930	8,	48,013	6,10,8	37	10,79,977
United Provinces			.}	29,11,769	20,3	3,203	13,16,479	17,	36,203	12,41,9	39	22,14,317
Punjab				9,59,728		8,971	14,20,758	2,	29,309	6,15,1	02	-11,62 420
Burna				68,74,320		6,870	98,97,062		08,040	, 1,30,33,6	93	89,71,80
Bilian and Orissa	• •	• • •		8,62,909		3,914	8,10,658	1	21,484	-94,2	93	1,64,37
7	- • •	• • •	1		1	1,757	6,59,873	•	65,843	3,05,5	1	5,99,21
Aseam	• •		-1	6,23,329 15,94,369	1				60,925	14,17,	1	16,72,56
Control Deceler	3 Dec			10.37.369	19,7	2,874	21,70,493	1	39,407	1,03,	1	3,56,64
Central Provinces and	l Berar	• • •	-				1		TANKE THE S		1	,
Coorg		· · ·		2,58,782	2,5	3,301	4,40,481	-			531	1,15,27
Coorg North-West Frontis		· · ·		2,58,782 1,83,835	2,5 1,7	8,965	1,61,088	-2,	31,418	-1,76,	- 1	
Coorg		• • •		2,58,732 1,83,836 1,220	2,5 1,7	8,965 8,772	1,61,088 —12,868	-2,	33,418 10,695	1,76, 	508	4,18
Coorg North-West Frontis		• • •		2,58,782 1,83,835	2,5 1,7	8,965	1,61,088 —12,368 —7,877	-2,	33,418 10,695 -6,217	1,74, 36,	508 046	4,13 21,52
Coorg	r Province	• • •		2,58,732 1,83,836 1,220	2,5	8,965 8,772	1,61,088 —12,868	-2, -7,	,31,418 10,695 6,217 ,03,556	—1,74, — —36, —7,86,	508 046 920	1,15,27 4,13 21,52 2,17,15
Coorg	r Province	• • •	tate .	2,58,782 1,83,836 1,220 —12,065	2,5 1,7 — , 5,1	8,965 8,772 8,079	1,61,088 —12,368 —7,877	-2. -7. -4.	33,418 10,695 6,217 ,03,556 ,44,636	-1,76, -36, -7,86, -7,08,	508 046 929 707	4,13 21,52 2,17,15 5,54,82
Coorg	r Province	• • •	bate .	2,58,782 1,83,836 1,220 —12,065 8,95,932	2,5 1,7 — 5,5 —2,6	8,965 8,472 8,079 11,557	1,61,088 	-2, -7, -4,	33,418 10,695 -6,217 ,03,556 ,44,836 -90,448	-1,74, -30, -7,86, -7,08, -1,07,	508 046 929 707	4,18 21,52 2,17,18 5,54,89 `{1,19,98
Coorg	r Province	• • •	nate .	2,58,732 1,83,835 1,22012,065 8,95,9322,81,890	2,5 1,7 	8,965 8,772 8,079 71,557 88,965	1,61,088 	-2. -7. -4.	33,418 10,695 6,217 ,03,556 ,44,636	-1,76, -36, -7,86, -7,08, -1,07, -2,46,	508 046 929 707 118	4,13 —21,52 —2,17,15 —5,54,82 `{—1,19,93
Coorg	r Province	• • •	tate .	2,58,732 1,83,836 1,229 —12,065 8,95,932 —2,81,800 —56,597	2,5 1,7 	8,965 8,772 8,079 71,557 88,965 59,110	1,61,088	-2, -7, -4, -4, -8,	33,418 10,695 -6,217 ,03,556 ,44,836 -90,448	-1,74, -30, -7,86, -7,08, -1,07,	508 046 929 707 118	4,13 —91,59 —2,17,11 —5,54,89 `{—1,19,99
Coorg . North-West Frontier Aimer . Baluchistan Andamans . Imperial Forest Colle Forest Surveys (Imp	r Province	• • •	tate .	2,58,732 1,83,836 1,220 12,065 8,95,932 2,81,300 56,597 24,38,110	2,5 1,7 	8,965 8,772 8,079 71,557 88,965 59,110	1,61,088 	-2, -7, -4, -4, -8,	33,418 10,695 6,217 ,03,556 ,44,836 90,448 ,50,760	-1,76, -36, -7,86, -7,08, -1,07, -2,46,	508 046 929 707 118	4,13 21,52 2,17,15 5,54,85 (1,19,95 4,89,45 80,23,01
Coorg	r Province	• • •		2,58,732 1,83,836 1,220 12,065 8,95,932 2,81,300 56,597 24,38,110	2,5 1,7 -2,5 -2,5 -2,5 16,6 25,5	8,965 8,772 8,079 71,557 88,965 59,110	1,61,088 	-2, -7, -4, -8, 15	33,418 10,695 6,217 ,03,556 ,44,836 90,448 ,50,760	-1,76, -36, -7,86, -7,08, -1,07, -2,46,	508 044 929 707 118 185	4,13 —91,59 —2,17,11 —5,54,89 `{—1,19,99

Includes pay of inspector-General of Forests, Assistant Inspector-General of Forests, Includes figures up to 1910-11 for districts subsequently transferred to Bihar and Lucludes figures up to 1910-11 for Eastern Bengal districts subsequently transferred.

MENT XIX—concld.

from 1899-1900 to 1928-29 and the average of 6 quinquennial periods from 1869-70 to 1898-99.

PLUS.

2													
	1905-06.	1906-07.	1907-08.	1008-09.	1909-19.	1910-11.	1911-12.	1912-18.	1018-14.	1014-15.	1915-16.	1916-17.	Province.
•	Rs.	Rs.	Rs.	Re.	Rei	Rs.	Rs.	Re.		Rs.	77-		
	-76,512	95,472	-02.538	-95,994	-93,700	-83,944	—84,034	-91,325	Rs. -87,825	~-67,431	Rs. -86,045	Rg. 78,702	Imperial.
,	5,25,033	4,32,478	4,84,256	6,00,861	4,89,541	5,24,159	4,16,068	19,30,807	0,75,954	6,83,561	5,51,975	7,19,180	Bongal.†
	10,23,216	11,95,013	12,15,792	9,52,970	10,91,586		16,52,487	19,14,609	18,10,473	8,17,495	11,72,524	23,05,017	United Provinces.
	5,17,989	4,60,881	2.89,753	4,87,165	3,64,881	4,77,440	5,44,931	4,39,857	4,85,766	5,48,703	6,03,405	7,53,189	Panjab,
	63,91,606	61,52,766	51,12,457	,51,71,785	56,74,459	62,27,818	55,86,432	67,63,800	71,50,528	50,27,247	48,12,976	74,42,943	Burma.
		•••		44.	4		1,00,297	63,064	1,86,087	1,65,408	1,56,177	81,109	Bihar and Orisea.
	5,12,186	6,12,732	6,80,071	5,55,010	5,22,101	8,43,295	8,05,307	3,33,189	1,87,729	65,462	2,99,888	4,72,588	Assam.;
ĭ	11,41,978	10,58,281	7,06,721	8,24,855	4,01,488	5,24,693	7,11,475	12,25,080	12,83,321	18,85,060	15,43,926	16,02,803	Central Provinces and Berar,
	1,49,671	1,83,054	1,69,037	1,24,785	1,05,807	1,68,876	1,73,996	1,20,108	1,50,713	23,404	2,72,522	8,26,822	Coorg.
	83,271	* 89,5G1	1,50,090	41,369	95,914	1,32,650	68,73 5	1,15,010	1,35,718	1,12,420	82,020	1,22,915	North-West Frentier Province.
	-2,129	1,620	11,676	7,6991	4,718	13,928	4,018	6,882	10,302	9,437	-1,707	-5,362	Ajmer.
	-4,269	-5,127	-6,429	13,261	-7,820		-8,839	8,368	5,323	-6,912	-6,362	-8,652	Baluchistan.
	2,46,526	3,11,891	62,555	21,077	05,818		2,50,428	1,91,764	1,71,185	81,192	3,952	2,21,059	Andamans, ,
	77,589	-1,32,907	1,51,901	1,78,511	1,01,20	52,15,103	2,57,801	2,60,834	2,02,532	-3,22,474	-2,71,523	-2,97,299	Imperial Forest College and Re- search Institute.
	-30,044	-80,889	27,060	39,128	-41,062	-41,140	-38,708	-35,809	-37,743	-42,853	-48,663	-47,407	Forest Surveys (Importal).
	7,01,002	8,10,009	11,12,973	9,78,658	6,38,746		7,54,039	9,61,991	12,64,503	10,60,852	11,70,520	17,53,448	Madras,
•	18,58,900	14,32,298	16,90,750	15,43,483	16,04,568	16,47,807	16,66,133	23,00,004	25,18,279	21,92,817	20,59,225	29,54,496	Bembay.
	1,24,16,072	1,23,27,68;	1,18,50,010	1,07,30,763	1,11,05,11	01,21,61,431	1,21,19,793	1,50,01,099	1,57,59,090	1,15,08,394	1,25,23,760	1,83,18,047	GRAND TOTAL
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,	, 1923-21	i, ;	1024-25.	1925-	26.	1926-27.	192	7-28.	1928-29,			Province	, kg
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1	1,14,	000	-1,88,495		8,003	-1,23,859		-GI,061	59,8		rial.#		
1	10,18,	i	10,58,055		5,452	13,69,050		47,027	13,36,	1 "		i	1
.	80,05,	1	32,87,083		10,035	21,97,60		,07,860	29,80,		d Province	8.	
ŀ	14,70,	406	11,12,824	l .	10,560	12,04,348	5 2	36,848	10,31,	706 Punj	sd. ,	,	
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1	2,78,	1	2,79,871		32,968	-1,89,817	2	,75,386	2,46,	788 Bihar	and Orissa	h	
1	8,14,		11,47,903	14,7	71,157	16,85,067	21	,67,693	16,45,	507 Assai	n.		•
-	29,69,	- 1	20,60,769	16,4	11,680	10,72,68		,78,692	17,97,	057 Cents	al Province	s and Bera	r. ,
1	1,85,	- 1	8,00,270		33,128	1,78,37		,48,156	2,60,				
1		765	81,054	1	96,886	1,59,447	5	65,286	5,	1	a-West Fro	ntior Provi	uco.
1		969	16,937	1	7,598	-12,79	•	6,350		560 Ajme		,	•
	, —ō,		9,885	1 .	7,797,	4,180	- 1	-4,152	⊢13,	1	histan.		امر ء
1	-2,84,	- 1	-4,28,093	I	4,034	-49,331	1	32,622	' 1,71,' 8,35,'	3		Caller	d Research Instituto.
1	-6,08	1.	, 7,23,786	} _	18,886		1	,10,197	1	1 -	t Surveys (A TABBUTON THEREBEO.
1	95, 7,81,		4,97,223	84	7,281	- 5,80,856	- (74,837	15,05,2			, ,	
	27,48		29,25,647	1	20,412	82,96,904	20	,82,813	28,50,5			u)	
4	2,01,74	,050	2,14,76,798	2,59,0	7,623	2,63,58,415	2,56	,21,482	2,27,47,	674 GRAN	D Total	,	
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Office Batablishment, and undistributable and petty local items and revenues and charges on Inders and Bangalere......Excludes Home charges. ...

**Recorded Communication of the
STATISTICAL DIAGRAMS RELATING TO FOREST ADMINISTRATION IN BRITISH INDIA.

1. Area under the control of the Forest Bepartment compared with total area of British India (including the Shah States).

Area not under FOTEST DEPARTMENT 853,771 Sq. miles = 77.3 per cent Total area 1,103,593 Sq. miles, Dapartment 249,812 Sq. miles = 22.7 per cent.

A. Reserved Forests. 100,840 Sq. miles. B. Protected do. 0,308 do.

do. 136,065 C. Unclassed do.

II. GROWTH OF FOREST REVENUE AND EXPENDITURE BY QUINQUENNIAL PERIODS SINCE 1864-69.

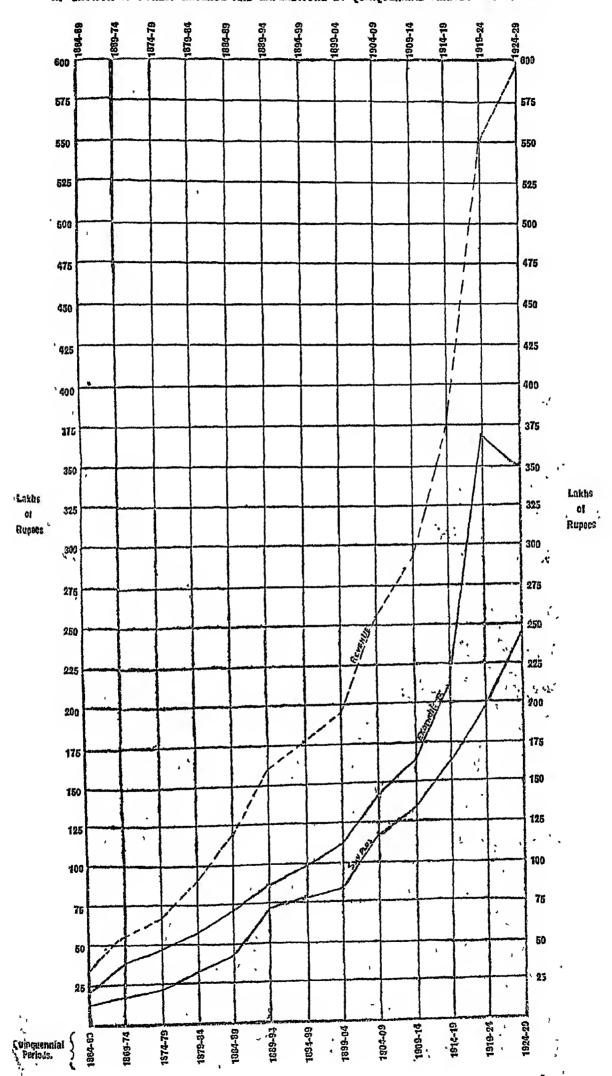


DIAGRAM SKOWING
ANNUAL FOREST REVENUE, EXPENDITURE & SURPLU3.
For the 10 years 1919-20 to 1928-29.

